

Manufacturers Record

Exponent of America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
FEBRUARY 2, 1928

Striking Figures on Income Tax Collections.

During the calendar year 1927 the South paid into the Federal Treasury income taxes to the amount of \$325,221,818, or more than double the combined amount of all the payments made by the New England States, which totaled \$159,541,837. Considering the enormous accumulated wealth of New England, its vast industrial interests and its great investments in business enterprises all over the country, it is remarkable that its payment should have been less than one-half of the amount of income taxes paid by the South.

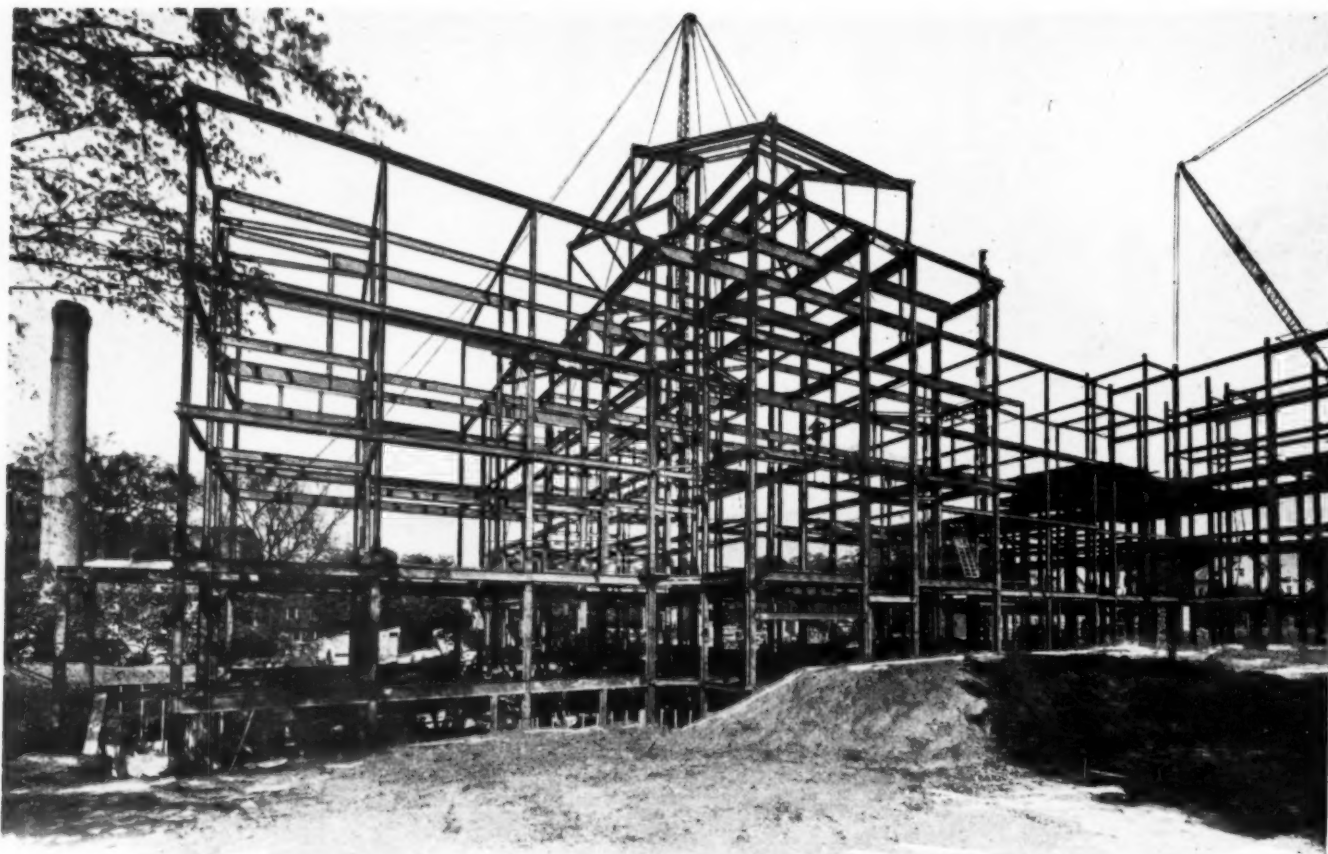
Moreover, if the South had received full credit for the income produced in that section, but which went into the coffers of New York, Boston and other eastern cities, its showing would have been still greater. To a large extent the South's railroad properties, its great steel mills, some of its cotton mills and other industries are owned in the North, and when their headquarters are located in New York and other eastern cities, their profits go to swell the volume of income taxes in those cities. Thus, New York especially gets credit for an enormous amount of income taxes which are paid through that city but are not earned there.

Another most remarkable illustration of the income taxation paid by the South in comparison with Western and Pacific Coast States is shown in the following table:

State	Taxes		
Minnesota.....	\$ 26,792,720	Colorado.....	12,743,557
Iowa.....	11,051,218	New Mexico.....	710,197
North Dakota.....	730,926	Arizona.....	1,681,763
South Dakota.....	676,318	Utah.....	3,830,992
Nebraska.....	5,402,215	Nevada.....	553,911
Kansas.....	21,038,453	Washington.....	12,567,124
Montana.....	2,400,309	Oregon.....	6,024,339
Idaho.....	1,183,047	California.....	114,811,450
Wyoming.....	2,567,967	Total, 17 Western States.....	\$224,766,506

Thus, the Southern States, which paid Federal income taxes last year of \$325,221,818, show an excess of \$100,455,312 in income taxation over the 17 Western and Pacific Coast States named in the table. Great is the South.

Many detailed figures on these tax payments are given in this issue.



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Manufacturers Record

RICHARD H. EDMONDS, Editor

PUBLISHED EVERY THURSDAY BY THE

MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, corner Commerce and Water Streets, Baltimore, Maryland
Printing Plant, 8th Floor, Candler Building, Market Place and Lombard Street, Baltimore, Maryland

RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer

BRANCH OFFICES:

CHICAGO, 11 South La Salle Street

NEW YORK, 901 Singer Building

CINCINNATI, 333 Dixie Terminal Building

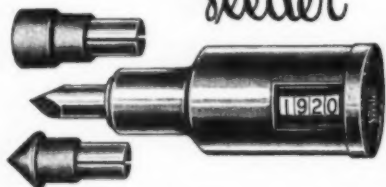
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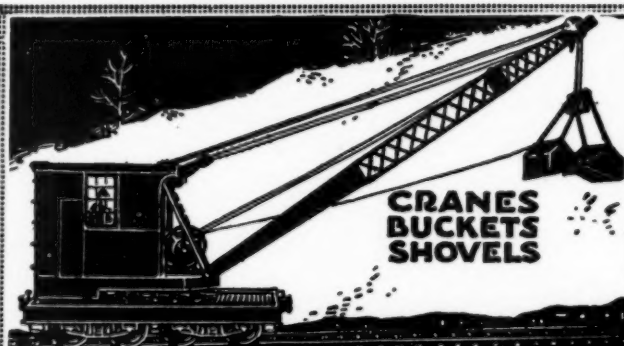
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Vol. XCIII No. 5 }
Weekly. }

BALTIMORE, FEBRUARY 2, 1928.

{ Single Copies, 20 Cents.
\$6.50 a Year. }

The South Forges Ahead With an Enlarged Industrial and Construction Program.

MEASURED by the magnitude and diversity of construction projects placed under contract for the month of January industrial expansion and building work of all kinds in the 16 Southern States is going forward this year at a rate about equal to the high level established during the past few years of record-breaking activity. This bears out the forecast of the MANUFACTURERS RECORD in its recent review of 1927 building and industrial operations in the South, that this section would play its full part in 1928 in sustaining and in bringing about better conditions in the realm of business generally. Projects now under way and announced insure a continuation of building operations on a big scale for many months. Recent activity has been widespread, with no particular class of structure or industry predominating or any special section outstanding, and thus comprising a well-rounded development program for continued expansion that means prosperity and progress for the South.

Briefly summarized, the forward movement in the first month of the year was marked by the award of over \$52,000,000 in contracts for construction and industrial projects, by the sale of \$20,120,000 public improvement bonds and by the publication in the construction columns of the MANUFACTURERS RECORD of 6010 items. The figures are more significant when it is considered that awards and bond sales in December, 1927, were unusually heavy for that period of the year. The number of items published in January averaged more than 1500 weekly, the second highest average ever reported for the first month of the year.

The expansion of Southern telephone and electric power facilities in accord with programs announced shortly after the turn of the year is an excellent index of the steady forward movement in business, building and industry.

Three of the country's largest telephone systems are erecting new exchange and administration buildings, additional toll lines, replacing manual units with dial equipment, modernizing and making improvements entailing an expenditure of more than \$76,000,000, the greatest amount to be expended for telephone facilities in one year in the South. Expenditures in each of the past three years for similar improvements have steadily increased.

Electric power and light companies in practically every section of the South will expand facilities this year at a rate never before equalled. Although most of the large companies have had under way almost continuous expansion programs since the general forward movement began in the South in 1921, many of them report that their facilities are still

unequal to the demand for power, and as a result they are enlarging their original programs and speeding up the work generally. Great hydro-electric projects, big steam-electric plants using coal, lignite, natural gas and fuel oil as fuel, elaborate systems of transmission lines to serve many sections heretofore without adequate supplies of power, big storage reservoirs to insure a sufficient supply of water and costly transformer and sub-stations are being erected so that abundant, cheap power may not only be produced but that a year-round, dependable supply be available to attract and further industrial developments. Some idea of the tremendous volume of this class of work is indicated in the programs for 1928 announced by representative companies as follows: Alabama Power Company, \$15,000,000; Georgia Power Company, \$12,750,000; Houston Lighting and Power Company, \$7,000,000; Consolidated Gas, Electric Light and Power Company, Baltimore, \$6,000,000; Middle West Utilities Company and subsidiaries in Texas, \$18,500,000; Savannah River Electric Power Company, \$20,000,000. A \$52,000,000 power project for interests associated with the Philadelphia (Pa.) Electric Company is being completed on the Susquehanna River, Maryland; a \$20,000,000 plant is being built by the Barstow interests on the Saluda River, South Carolina; Crisp county, Georgia, will expend \$1,250,000 for a hydro-electric project in an effort to attract industries to the section, and the municipal power plant at Jacksonville, Fla., is being enlarged at a cost of \$2,000,000.

Closely associated with power development is the building of natural gas lines from Texas and Louisiana to towns and cities in some cases 400 miles or more distance, involving in the aggregate the expenditure of millions of dollars. A private line is being built from a Louisiana gas field to Camden, Ark., to supply a \$5,000,000 paper plant now being constructed. Fast growing cities like Houston, Texas; Kansas City, Mo.; New Orleans, La., and Denver, Col., are to be supplied with natural gas by costly lines under way and proposed. Big oil refineries are being built and additions and improvements are being made to established plants. Carbon black plants for utilizing residue gas from absorption plants figure prominently in recent announcements concerning enterprises of this kind.

Eastern and Northern textile interests continue to buy established Southern mills and to erect new plants and move machinery to the South. Meanwhile, Southern textile interests are rearranging mill machinery layout, installing the latest types of equipment and discarding the old, and are taking steps to insure the operation of their mills on an efficient basis. Besides, they are adding bleacheries, dye works,

print plants and extending operations generally and going into the production of finer goods.

This concentration of the textile industry in the South, which has attracted widespread attention during the past five years, is being logically followed by the development of the South as a great rayon producing center. Several new plants and additions to every rayon plant in the section are now under way at an aggregate cost of close to \$50,000,000. In addition, surveys are being made looking to the establishment in the South of similar plants.

Industrial activity at present is featured by the enlarging of iron and steel plants, fertilizer and acid works, the building of cement mills, condensed and powdered milk plants, asbestos products plants, airplane factories, chemical plants, paper mills, cigarette and tobacco plants in widely scattered sections of the South. As a result this section is investing heavily in machinery, equipment and supplies for installation in the new industries now being established.

A survey covering the voting and sale of municipal securities indicates definitely that public improvements are being provided in keeping with the development in business and industry. The rapid growth of towns and cities has necessitated the building of new streets and sidewalks, the laying of water and gas mains, the elimination of railroad grade crossings, the erection of costly water and sewer plants, etc. While much has already been accomplished, this class of work will constitute an important part of the South's future construction program.

The general forward movement and growth of population has also stimulated the building of large schools, courthouses, city halls, postoffice buildings, libraries, municipal auditoriums, etc. Many such structures costing up to \$5,000,000 each are included in recent awards and preliminary announcements.

In the building of city streets, highways and bridges the South is investing \$400,000,000 annually, and indications are that this figure will be increased—particularly if campaigns now under way for bond issues in several States that have not yet voted bonds in big amounts are successful. In addition, those States that have built extensive systems of improved highways find that their gas tax and license receipts are increasing steadily, making it possible to apply additional funds to the building of new highways and the maintenance of existing roads.

Although many States have recently completed, are now building and propose impressive, costly bridges, there is a big movement well advanced for the building of privately owned toll bridges. Scores of franchises have been granted recently for such structures in many parts of the South. Already work is proceeding on many bridges costing up to \$5,000,000 each, and within the next few years even greater expenditures will be made as franchise rights are exercised. The Tennessee Legislature authorized the building of State-owned toll bridges, and a program has been launched looking to the erection of such structures costing \$11,500,000. Similar action was taken recently by the Arkansas Legislature and in the immediate future a number of costly bridges will be erected under this authority.

FLORIDA VEGETABLES HEALTH BUILDERS.

W J. HOWEY, president of the W. J. Howey Company, Howey, Fla., in a letter to the MANUFACTURERS RECORD, writes:

"It does not seem to be generally understood, but the fact is that vegetables and fruits grown in Florida are, without exception, in a class by themselves in point of vitamins and mineral salts and other nutritive value, due in a measure to the super amount of ultra violet rays."

A REMARKABLE APPEAL TO MEN OF MEANS IN BEHALF OF EDUCATIONAL WORK.

"THE TENTH GENERATION," by Harry Stillwell Edwards, one of the South's most noted writers, published in this issue, is an extremely unique presentation of the supreme duty which rests upon the people of the present generation to provide for educational and religious training for all coming generations. As heirs of all the ages, we of this generation have a tremendous responsibility to future generations. Mr. Edwards has presented the matter of this responsibility in a way quite unlike anything ever written on the subject, with special reference to larger endowments for educational and religious training, dealing, however, primarily with education.

Advance copies of this article, which is a brilliant appeal to all thinking men, were sent to several university presidents in order to see how Mr. Edwards' way of presenting the matter appealed to them. We quote extracts from some of these replies.

Dr. J. H. Kirkland, president of Vanderbilt University, Nashville, writes:

"I have read with the greatest possible interest 'The Tenth Generation' and I am greatly pleased to know it will soon be published by the MANUFACTURERS RECORD and that you have in mind some plan to give it wide distribution.

"It is a most convincing argument for educational endowment, but it is also a most convincing argument for every kind of activity which promotes public welfare and the development of personal character. Put in briefest form, the lesson of the article is that in the present generation is wrapped up the whole future of humanity.

"All our plans for culture, civilization, improvement of character, suppression of evil of every kind must be made effective through efforts directed toward securing these results just now. This gives us a wonderful stimulus. It is the opposite of the principle on which so many lives operate, namely, putting off until tomorrow every difficult and unpleasant task.

"Under the argument of Mr. Edwards, nothing should be left for tomorrow that can be done today. The life of today is not a fruit to enjoy, but a seed. If we can only plant a good seed and eliminate the tares, the next harvest will take care of itself."

Dr. Paul Eaton, associate professor of preventive medicine, University of Georgia, wrote:

"It is an extraordinary presentation of the facts."

Dr. William F. Quillian, president of Wesleyan College, Macon, in a letter to Mr. Edwards, said:

"By indirection, you have accomplished what is most difficult to accomplish by direction. I feel sure that your story will appeal to all thoughtful people and particularly to those who have funds to invest for Christian education."

In a letter to the MANUFACTURERS RECORD referring to the same subject, Dr. Quillian wrote:

"I regard this as one of the most unique and powerful appeals for the better support of our colleges and universities that it has been my privilege to read. Mr. Edwards is right. We cannot hope to lift our people to a high place in moral and spiritual thinking without giving to them the fundamentals of Christian thinking. My close personal friendship with Mr. Edwards causes me to appreciate even more sincerely the splendid work that he has done in this article. The MANUFACTURERS RECORD is honored in having the privilege of presenting it to American leaders in thought and life. I congratulate you."

Reverend O. C. S. Wallace, one of the leading ministers of Baltimore, and for 10 years Chancellor of McMaster University of Canada, wrote:

"Harry Stillwell Edwards has written nothing more fascinating or with greater potentialities of usefulness than 'The Tenth Generation.' He makes it a call to rich men to build and endow schools. It may be given ever greater impres-

siveness as a call to parents to make the churches of this day vital, powerful and spiritually effective."

Chase S. Osborn, Sault de Sainte Marie, Mich., referring to Mr. Edwards' article, writes:

"Men who have more money than they need are coming really to regard themselves as trustees in fact for those who need many things. That thing most needed is proper human husbandry. This idea has been grasped in a dramatic and searching manner by Colonel Edwards. He is, in my opinion, the ablest writer in English in the world today. In addition, he possesses a high spiritual development. His combined spirit and intellect have produced the paper you are interested in. * * * I have stated that men consider themselves as trustees for their wealth that is above their necessities; consequently, they are searching for means of use. This is not easily determinable, but to give to educational institutions of character is to be certain of perpetuated purposefulness, in the best possible and in the safest and honest way. * * * Heretofore, we have developed our stomach senses. Then came the intellectual. The spiritual lagged behind. * * * Everything you can do to spread the Edwards' doctrine will be a blessing."

Dr. Horace D. Taft, head of the noted Taft School of Watertown, Conn., writes:

"I have read with great pleasure 'The Tenth Generation' and certainly feel that you are doing a good deed in distributing it as widely as possible. The imagination shown in it will wake people up, and certainly we need it. Certainly that is a very striking article."

We believe we are rendering a distinct service to the country in giving this unusual presentation of the responsibility of men of wealth, or for that matter of all men who in one way or another can contribute to the training and education of the rising generation and to all generations that are to succeed them.

"The Tenth Generation" will be published in pamphlet form at 10 cents each.

We suggest that every educational institution in the country interested in broadening the appreciation by people generally of the value of educational work should distribute these pamphlets to their former graduates and to all in their communities who can be reached through this means of giving to the public a greater sense of the opportunity and the responsibility which rests upon all men who through their moral influence or their financial ability can help to carry forward the educational and religious advancement of all generations yet to come.

BIG INTERESTS DEVELOPING SOUTHERN FARM PROPERTIES.

J. C. THORN, president of the Hotel St. Regis, New York, of which B. N. Duke is vice-president, the hotel being owned and operated by the Durham Realty Corporation, which controls the Durham Tropical Land Corporation, which is developing a 50,000-acre property in Florida, as recently reported in the MANUFACTURERS RECORD, writes this paper as follows:

"There can be no question that Florida offers excellent opportunities to farmers who will go there and live and work. It seems to me that more money can be made in farming there, with the same investment and effort, than in almost any other State in the Union. The State needs just the sort of advertising you are giving it. Undoubtedly, the real future of Florida must be measured by its agricultural wealth. In this direction it has great possibilities, and I think you are doing the State and the public a service in bringing out the facts."

The trend of great business leaders and capitalists, like the Durham Tropical Land Corporation and J. C. Penney and others, to develop big farming interests in the South is one of the most interesting movements of the day.

AMERICAN TOURISTS IN AMERICA A GREAT NATIONAL DEVELOPING POWER.

MANY striking statements in regard to the development of tourist travel in America are given in a letter on this subject from H. N. Burhans, president of the American Travel Development Association of Denver. Mr. Burhans points out the importance of having the bankers of the country interested in the development of tourist travel in America.

"The tourist of today," he says, "is the citizen of tomorrow."

That is pre-eminently true in the history of the South, as it has been on the Pacific Coast and in the West. Flagler was a tourist to Florida, but he spent \$75,000,000 to \$100,000,000 of his own money in the development of Florida because of his enthusiasm for that State after visiting it as a tourist. Henry B. Plant was a tourist to Florida, but he did for the West Coast what Flagler had done for the East Coast of Florida.

Innumerable instances might be mentioned of how the tourists have become citizens, investors and developers in every part of the land. No section can, therefore, afford to miss the highest development of the tourist business. It is, moreover, a great factor in solving many of the problems of the country, once divided on sectional lines, but which are now being wiped out largely by the intermingling of business and of tourists from all parts of the land to all other parts of the land.

"The American that visits a foreign country," says Mr. Burhans, "spends American dollars that filter through the channels of industry in the country he visits. Possibly 5 per cent of it goes through American industrial channels, which consists of the part paid for transportation"; but:

"One hundred per cent of the American dollar spent in America by travelers, even to the smooth dime spent in the most distant parts of Alaska, eventually finds its way to Wall Street. They ride in American made trains, eat American grown foods, sleep in American made beds, wear American made clothes, patronize American shopmen, and buy American made products."

That is a striking statement, well worth being driven into the mind of every banker and business man in America. It ought to appeal tremendously to all of these interests, to every railroad official, to every automobile manufacturer and to all others interested in American dollars being expended for the development of American business.

Moreover, this statement is one which pre-eminently illustrates the tremendous importance of good highways—highways covering every section of the country—and in this respect the South ought to be the leader, because it ought to be the tourist center for a large part of America. There are still tens of millions of people in the North and West and in Canada, within easy reach of the South, who have never yet seen this section. It is as though these sections had simply sent out their spies, as the Israelites of old, to investigate the attractions of the Promised Land and to see what reports come back to them as to that country to which the eyes of the Israelites had been turned for many long years. The South is the Promised Land for these millions, but to speed their coming we need good highways everywhere, not because they will all come in automobiles or motorbuses, but because when they do come South they want the opportunity of motoring from one part to another over splendid highways.

The highway is the upbuilder of the country. It opens up the back country, it develops the local people, it brings in the outside people.

We commend to every reader a study of the thought-provoking letter on this question of American tourist travel by Mr. Burhans.

Income Tax Payments for 1927 Present Some Striking Comparisons.

INCOME taxes aggregating \$2,195,506,999 were paid into the Federal Treasury for the calendar year 1927 by the people of the United States, including Alaska and Hawaii, \$859,238,622 being from individual incomes, and \$1,336,268,367 from corporate incomes. While corporation payments increased by \$79,475,081, as compared with 1926, individual income tax payments decreased by \$56,095,413, leaving a net gain for 1927 of \$23,379,678.

By reason of the reaction in real estate activities in Florida there was a heavy decrease in income tax payments by that State, as compared with 1926, whereas most of the Southern States made an increase in their tax payments, giving a total for the year of \$325,221,818, or a decrease of \$15,633,785. Without the loss of Florida's income tax payments the South would have shown a gain of \$6,743,077.

In 1926 the heavy profits made in real estate operations in

Florida caused individual income taxes to be paid to the extent of \$28,998,920, while for 1927 the amount of individual income taxes paid by that State was \$13,931,491, this great decrease being due to the reaction from the real estate boom of 1926. Even under these conditions, however, Florida's income tax was more than twice as great as Iowa's, nearly \$3,000,000 greater than Kansas' and nearly five times as great as Nebraska's. It exceeded the income tax payment of Colorado by \$11,500,000, and was only \$1,300,000 less than the combined income tax payments of Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah and Nevada, these eight States having paid a total income tax of \$25,671,743, as compared with Florida's \$24,301,806. Moreover, Florida's income taxation was nearly \$6,000,000 greater than that of Washington and Oregon combined. It was twice as great as the income tax of Rhode Island, and nearly twice as great

CORPORATE AND INDIVIDUAL INCOME TAX COLLECTED IN 1927, COMPARED WITH 1926.
(Compiled by the MANUFACTURERS RECORD from Internal Revenue report of the Treasury Department.)

States	1926			1927		
	Corporation	Individual	Total	Corporation	Individual	Total
Alabama	\$5,951,114	\$2,982,903	\$8,934,017	\$7,186,792	\$2,871,530	\$10,058,322
Arkansas	3,054,290	2,112,540	5,166,830	2,525,078	1,927,952	4,453,030
Florida	17,679,748	28,998,920	46,678,668	10,370,315	13,931,491	24,301,806
Georgia	9,703,184	4,461,738	14,164,922	9,003,844	3,919,455	12,923,299
Kentucky	9,806,821	6,235,580	16,042,401	10,962,954	4,386,153	15,349,107
Louisiana	8,410,819	5,673,550	14,084,369	8,936,908	5,188,168	14,125,076
Maryland*	25,339,378	19,208,776	44,548,154	25,379,267	19,913,933	45,293,200
Mississippi	2,337,846	1,232,136	3,569,982	1,819,587	938,372	2,757,959
Missouri	39,587,223	17,072,917	56,660,140	37,485,843	15,996,874	53,482,717
North Carolina	14,354,580	4,746,031	19,100,611	14,929,510	4,602,457	19,531,967
Oklahoma	9,287,819	11,119,459	20,407,278	12,640,976	10,653,454	23,294,430
South Carolina	3,221,738	695,262	3,917,000	2,801,617	677,170	3,478,787
Tennessee	8,940,446	3,785,432	12,725,878	9,189,919	4,429,284	13,619,203
Texas	28,293,907	12,923,802	41,217,709	29,443,314	14,947,822	44,391,136
Virginia	15,595,795	4,018,827	19,614,622	18,507,855	4,233,391	22,741,246
West Virginia	10,988,966	3,034,056	14,023,022	12,614,591	2,805,942	15,420,533
Total South	\$212,553,674	\$128,301,929	\$340,855,603	\$213,798,370	\$111,423,448	\$325,221,818
Maine	\$5,715,285	\$3,392,837	\$9,108,122	\$4,539,894	\$3,694,257	\$8,234,151
New Hampshire	1,428,273	1,588,842	3,017,115	1,640,486	1,491,337	3,131,823
Vermont	1,613,581	1,100,944	2,714,525	1,517,741	980,462	2,498,203
Massachusetts	56,813,882	47,266,379	104,080,261	59,975,215	39,991,383	99,966,598
Rhode Island	8,234,420	6,592,941	14,827,361	6,222,564	4,233,391	10,455,955
Connecticut	16,474,125	15,273,775	31,747,900	17,871,477	15,194,378	33,065,855
New England	\$90,279,366	\$75,215,718	\$165,495,084	\$91,767,377	\$67,774,460	\$159,541,837
New York	\$276,299,218	\$342,115,837	\$618,415,055	\$358,845,773	\$293,455,312	\$652,301,086
New Jersey	43,653,406	34,558,821	78,212,227	44,890,814	36,235,714	81,126,528
Pennsylvania	130,040,325	83,378,630	213,418,955	133,300,176	91,140,761	224,440,937
Delaware	8,788,551	3,125,069	11,913,620	10,385,092	5,355,502	15,740,594
Middle Atlantic	\$458,781,500	\$463,178,357	\$921,959,857	\$547,421,855	\$426,187,289	\$973,609,145
Ohio	\$83,519,977	\$36,280,041	\$119,800,018	\$73,074,848	\$38,511,726	\$111,586,574
Indiana	18,715,311	8,757,781	27,473,092	17,698,783	10,881,711	28,580,494
Illinois	114,267,680	77,833,567	192,101,247	120,810,804	72,639,231	193,450,035
Michigan	108,869,297	38,816,774	147,686,071	95,086,375	35,339,815	130,426,190
Wisconsin	24,493,324	8,501,133	32,994,457	33,071,116	9,857,557	42,928,673
East North Central	\$349,865,589	\$170,189,296	\$520,054,885	\$339,741,926	\$167,230,040	\$506,971,966
Minnesota	\$21,435,648	\$7,834,459	\$29,270,107	\$18,673,163	\$8,119,557	\$26,792,720
Iowa	7,575,604	4,253,817	11,829,421	7,314,466	3,736,812	11,051,278
North Dakota	562,712	263,539	826,251	499,339	231,587	730,926
South Dakota	549,300	288,613	837,913	418,855	257,463	676,318
Nebraska	3,983,529	2,258,634	6,242,163	3,584,830	1,817,385	5,402,215
Kansas	14,263,434	3,375,961	17,639,395	17,522,394	3,516,059	21,038,453
West North Central	\$48,370,227	\$18,275,023	\$66,645,250	\$48,012,987	\$17,678,863	\$65,691,850
Montana	\$1,470,247	\$767,353	\$2,237,600	\$1,662,684	\$737,625	\$2,400,309
Idaho	1,221,355	222,080	1,443,435	954,476	228,571	1,183,047
Wyoming	1,128,384	386,462	1,514,846	1,763,231	804,736	2,567,967
Colorado	8,339,256	3,918,517	12,257,773	9,359,246	3,384,311	12,743,557
New Mexico	369,564	246,509	616,073	429,023	281,174	710,197
Arizona	993,283	653,340	1,646,623	1,115,426	568,337	1,683,763
Utah	3,039,551	740,529	3,780,080	3,125,899	705,093	3,830,992
Nevada	260,534	189,601	450,135	333,017	220,894	553,911
Mountain	\$16,822,174	\$7,124,391	\$23,946,565	\$18,743,002	\$6,928,741	\$25,671,743
Washington†	\$9,767,144	\$3,212,105	\$12,979,249	\$9,148,623	\$3,418,501	\$12,567,124
Oregon	4,026,098	2,238,728	6,264,826	3,548,425	2,475,914	6,024,339
California	61,602,850	46,487,205	108,090,055	60,113,032	54,698,418	114,811,450
Pacific	\$75,396,092	\$51,938,038	\$127,334,130	\$72,810,080	\$60,592,833	\$133,402,913
United States	\$1,252,068,622	\$914,222,752	\$2,166,291,374	\$1,332,295,597	\$857,815,675	\$2,190,111,272
Hawaii	4,724,664	1,111,283	5,835,947	3,972,770	1,422,947	5,395,717

*Includes District of Columbia. †Includes Alaska.

as the combined tax of Maine, New Hampshire and Vermont.

The income tax payments of Georgia, amounting to \$12,923,000, exceeded the combined total of Maine and New Hampshire, and exceeded Rhode Island's payments by \$300,000 and Iowa's by \$1,900,000.

Kentucky's income tax payments, amounting to \$15,349,000, exceeded the combined payments of Maine, New Hampshire and Vermont by \$1,500,000 and Rhode Island's by \$2,700,000.

Louisiana fell but little short of Kentucky's payments, and exceeded Georgia's by \$1,200,000. It was ahead of Rhode Island by \$1,400,000.

North Carolina was ahead of Iowa by \$8,500,000, and paid about three and a half times as much as Nebraska.

Oklahoma fell only \$3,500,000 short of Minnesota with the latter's vast iron ore interests, while payments from Texas were \$17,000,000 ahead of Minnesota, four times that of Iowa, more than twice as great as that of Kansas and \$18,000,000 greater than the combined total of Montana, Idaho, Wyoming, Colorado, Arizona, New Mexico, Utah and Nevada.

Texas exceeded Wisconsin by \$1,400,000, and Indiana by \$16,000,000.

The States of Ohio, Indiana, Illinois, Michigan and Wisconsin showed a decrease in their income tax payments of a little over \$13,000,000, while Minnesota, Iowa, North Dakota, South Dakota, Nebraska and Kansas showed a decrease of about \$1,000,000. It is an interesting fact that the total income tax payments of these six populous, rich Northern States of \$65,691,850 was considerably exceeded by the total of two Southern States, Texas and Virginia, which had a total of over \$67,000,000 taxes paid to the Government.

The total for the four Southern States of Florida, Georgia, Kentucky and North Carolina amounted to over \$72,000,000, or \$7,000,000 in excess of the six States of Minnesota, Iowa, North Dakota, South Dakota, Nebraska and Kansas.

The total income tax payments by the Southern States of \$325,221,818 was largely more than double the total payments by the six New England States, and was \$101,000,000 greater than the combined total of Minnesota, Iowa, North Dakota, South Dakota, Nebraska, Kansas, Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington, Oregon and California. These States had a total of \$224,000,000 income tax payments, against \$325,000,000 for the South.

Well may the South rejoice in this magnificent showing, and well may the country at large begin to realize how vitally important to the nation is the development of the South, which is thus demonstrating its tremendous economic value to the Federal Treasury.

The income tax payments for 1926 and 1927 by States and by geographical divisions are shown in the tables given on the preceding page.

AN IMPORTANT PUBLICATION.

THE Birmingham News recently published its annual financial review, covering the progress of that section for 1927 and its forecast for 1928, giving a vast amount of information as to the material progress of Birmingham and the outlook for the future.

In connection with the discussion of the Birmingham situation, the News also published articles of special value on the general American business outlook from a number of railroad presidents and leading financial and business authorities in different parts of the country.

The whole issue was one of exceptional interest to the people of all sections, by reason of the comprehensive discussions from men of national reputation of various lines of business development and the outlook.

THE AMAZING DEVELOPMENT IN THE EXTENT OF OPERATIONS OF THE BANK OF ITALY OF CALIFORNIA, A DANGER TO OUR COUNTRY.

A SAN FRANCISCO correspondent of the MANUFACTURERS RECORD interestingly discusses the remarkable magnitude of the operations of the Bank of Italy, now the foremost bank in some respects in the world. He writes:

"Herewith is clipping from this morning's Examiner, telling about the Bank of Italy and its large plans for a nationwide branch banking program. The mere publication of the big profits it has made by enhancement of values in the stocks of banks absorbed is likely to start other large banks gobbling up the small ones. Of course, this has been going on with other prominent banks here and in Los Angeles.

"See how \$113,000 was cleaned up by absorbing a bank in the small town of Hollister, and \$83,000 on another in the village of Fort Bragg. Why wouldn't the directors and chief owners of any prominent bank take a hand in the game and start a hunt for country banks, the stock of which may appreciate 100 per cent after absorption?

"The Bank of Italy is not satisfied with the legitimate and other profits of the banking business, but is taking in other lines. It has entered into competition with the established insurance agents, who are now organizing for defense. It seems to be giving attention to fire insurance, and it is likely also to get into life insurance. And this in many, if not all, of the communities where it has branches. You can see how a bank, especially in communities where it has absorbed all other banks, can enter into a very unfair and one-sided competition with resident agents who have made insurance their life work. With a large proportion of the citizens, the suggestion, advice or solicitation of their insurance business by the bank is the same as an order. With debtors it is an absolute order.

"As was to be expected, many of the insurance companies, realizing the iniquity of the proposition, have refused to place agencies in the banks. Of course, it would be very foolish to do so, aside from considerations of decency. The agency organization of a large insurance company, fire, life or casualty, has taken many years and much expense to build up, and its loyalty in the aggregate constitutes a very important proportion of the company's assets. So it would not do for such a company to antagonize its agency organization by promoting the unfair competition of the banks. It is probable that if anything should obliterate the field forces of the New York Life or any company of approximate magnitude, it would be equivalent to a loss of \$200,000,000 or more. In fact, it would be hard to estimate the damage of such a disaster."

The extract from the San Francisco Examiner to which our correspondent refers gives the following review of the annual meeting of the stockholders of the Bank of Italy:

"Two highly important subjects featured the annual report made yesterday by President James A. Bacigalupi of the Bank of Italy to the stockholders in meeting assembled.

"One was that of branch banking, during the discussion of which Bacigalupi declared his belief that nation-wide branch banking is inevitable.

"The other was crystallized in his ringing warning to the investing public not to go into debt to buy the bank stock merely because of the great success and the optimistic reports of the institution.

"Bacigalupi went so far as to say that those who are so embarrassed should dispose of enough of the security to clear themselves. Everyone should 'strictly refrain' from buying the stock unless he or she can pay for it, he said. After detailing the factors that have contributed to the success of the bank's stock in the market, he continued:

"This optimistic comment, however, should not be ac-

cepted by any shareholder who may be indebted to any source for any portion of his or her holding of bank stock as an inducement to carry on in expectation of immediate increment or higher returns, nor should it be taken by others as an encouragement to go into debt for the purpose of increasing their holdings.'

"In his report Bacigalupi took the stand that branch banking, based upon the principle of greatest possible return to the stockholder, the banking customer and the public at large, has achieved the right to widen its benefits.

"The report contains a strong defense of the McFadden Act, which, while restricting branch banking, has strengthened the position of national banks through the liberalizing and modernizing of the national banking law. A system of nation-wide banking patterned after the Federal Reserve and including all of the features that have contributed to the success of the expansion of single banks in California is suggested.

"Detailing the effects and the potentialities of branch banking as a community builder, Bacigalupi included in the report a table showing how the stock in nine banks acquired by the Bank of Italy appreciated tremendously when fused with the stock of the larger institution. The profit, per hundred shares, for the nine banks in question follow:

"Commercial and Savings Bank, San Jose, \$115,000; Bank of Hollister, \$113,000; Farmers and Merchants, Modesto, \$112,000; San Joaquin Valley National, Stockton, \$111,000; Eureka, \$102,000; Bank of San Jose, \$82,000; Fort Bragg Commercial, \$83,000; Marine Trust, Long Beach, \$78,500; People's Bank, Sacramento, \$58,000.

"Bacigalupi called attention to the apparent inequality imposed by restrictive legislation, which prohibits State or national banks from effecting interstate expansion while permitting them to establish branches at will in foreign countries.

"The striking expansion of all of the bank's functions and an analysis of its last financial statement are set forth in detail in the body of the report. They show that the bank, together with the National Bankitaly Company, formed for the purpose of facilitating and expanding the procedure of the organization, controls the largest aggregation of banking capital in the world. They show, further, that the bank has achieved the biggest customer list of any institution of its kind in the country, while it steadfastly maintains its place as third of the country's financial institutions in the amount of capital resources.

"The 'group strength' of the bank and its affiliated interests, including the Bancitaly Corporation, greatest of the world's investment trust companies, is set forth not only as a factor of expanding growth, but of increasing security. Supplementing this is the 'conceded and aspiring practical genius' of A. P. Giannini, founder of the bank, Bacigalupi points out.

"Morgan A. Gunst, assistant vice-president and general manager of the General Cigar Company, Inc., and C. P. Cuneo, vice-president of National Bankitaly Company, were elected directors to fill existing vacancies. All other directors and officers of the Bank of Italy were re-elected."

The extent of the branch banking operations of this institution are suggestive to any thoughtful mind of the tremendous danger involved in the development of a branch banking system that makes possible such an enormous aggregation of capital, controlling the destiny of the business operations of many communities. Very naturally, great banking institutions whose power is thus constantly expanding are in favor of a system which permits their domination of such a vast territory, but conservative people who have seen the value of the individual banks of this country, to which much of its prosperity is due, will naturally regard with serious alarm the spread of the branch banking system and the control of so many banks by any one great institution. At the moment the danger may not be clearly seen, but the danger is there nevertheless.

TREASONABLE PUBLICATIONS SHOULD BE SUPPRESSED.

SOMEWHAT on the line of the editorial, "Be On Guard," which appeared on the cover page of the MANUFACTURERS RECORD December 15, Representative C. H. Brand of the Eighth district of Georgia introduced a bill in Congress to exclude from the mails "certain newspapers containing matter printed in foreign languages." Specified in the measure for exclusion are foreign language papers advising, advocating or teaching:

"(1) Opposition to all organized government; (2) the overthrow by force or violence of the Government of the United States or of any State of the United States or any political subdivision thereof; (3) the duty, necessity or propriety of the unlawful assaulting or killing of any officer or officers, individually specified or in general, of the United States or any State or any political subdivision; (4) the unlawful damage, injury or destruction of property."

Not only should this bill be enacted at once into law, but also that law should be enforced to the very limit. Opposition may be expected not only from the lawless element of the country—the anarchists, soviets, communists and other Reds—but also, in some measure, from so-called "liberals," among both the people and the press, particularly the demagogues in both those circles. Such opposition makes enactment and enforcement only the more imperative.

The length to which such published instigations to communistic insurrection now go, unchecked by the Federal or local authorities, is an actual menace to the Republic—in no other civilized country would such preachments be permitted. It is not at all improbable that such publications could be suppressed right now by proper enforcement of existing laws; but, whether or not such be the case, the fact remains that sedition is openly preached and urged by foreign language, and some English language, papers in the United States at this moment.

Mr. Brand has done a patriotic service in the introduction of this measure, and it is to be hoped that the interest of Congress will not cease with its enactment, but will compel the responsible Executive departments to protect the nation and its Government more effectually than is done at present.

DESTINED TO BE "THE RICHEST AND MOST POPULOUS" SECTION OF AMERICA.

CLEMENT S. UCKER, formerly director of development of the Seaboard Air Line Railway and associated with the late S. Davies Warfield for 16 years in constructive up-building work for the South, recently resigned his position with the Seaboard, as stated in the MANUFACTURERS RECORD, and became connected with the long established banking house of Hambleton & Co. of Baltimore, as Southern representative, with offices in Savannah.

In the course of a personal letter to the editor of this paper, Mr. Ucker writes:

"My resignation from the Seaboard was prompted entirely by the death of S. Davies Warfield. I served 16 years with him. I felt that I knew him better than any man with whom I ever worked and, as those things grow among men, I was very fond of him. His going was a great shock to me and left a great void which I felt would never be filled. * * *

"From the enclosed card issued by Hambleton & Co., you will see that I am still connected with Baltimore interests, and that my work will still be in, with and for the South.

"I have spent 16 years in development and promotional work in the South, and I have come to love the South; it is that portion of our country in which the next great development will take place; it is destined, some day, to be what it was before the war between the States—the richest, the most powerful and most prosperous section of our country."

INDUSTRIAL GROWTH AND ITS MEANING TO AGRICULTURE.

IN announcing its proposed expenditure for construction and extension work for 1928, the Alabama Power Company summarizes what the expenditure of this sum in Alabama will mean to that State, as follows:

Five thousand men employed with monthly payroll aggregating \$500,000.

Ten thousand tons of steel and iron, made in Alabama, will be needed.

One million and two hundred thousand bags of Alabama cement will be required for construction work.

Two hundred thousand pounds of powder and dynamite will be used.

Hundreds of other miscellaneous items required for the fulfillment of this large construction program will be bought.

Wherever practicable Alabama Power Company will use only Alabama-made commodities.

This means that practically all the \$15,000,000 will be kept at home—benefiting large and small communities in every section of the State—swelling payrolls and promoting progress.

Here is a specific illustration of what the industrial development throughout the South means for the creation of employment and wealth.

The expenditure of this company will require the work of 5000 or more men, and consume 10,000 tons of Alabama iron and steel, 1,200,000 bags of Alabama cement and much other material, but this is only one phase of the value of this work. The Alabama Power Company might have added that the employment of these extra 5000 hands will create a demand for farm products to feed these 5000 men and their families, and that the purchase of iron, steel, dynamite and cement will mean a still further enlargement of the demand for food products. Every dollar spent in the enlargement of the industrial interests of the South means an added market for what the Southern farmer raises, whether it be his growing boys and girls or his foodstuffs and feedstuffs, the hens and chickens, the dairying products, the fruits, the vegetables, or other things which can be produced on the farm.

The greatest and most valuable products of every farm are the children that are born on it. They form an asset of infinite value. There are wrapped up in them possibilities for shaping the destinies of the world. These Southern farm boys and girls have needed a market for their brain and brawn. Industrial progress means the creation of this market, and thus the manufacturing and mining interests of the South become the greatest possible asset to the farm life of the South.

OUR NEW INDUSTRY OF TIMBER FARMING.

THE immense practical value of sound forestry legislation is indicated by a recent circular from the United States Department of Commerce. "The annual growth of timber in Sweden's forests now exceeds the annual cutting by nearly 100,000,000 cubic feet," states the circular, quoting a study of the Swedish forestry system made by Trade Commissioner Emil Kekich. "This result," it is added, "has been accomplished through forestry practice making extensive areas more productive and through closer utilization."

Over one-half the land area of Sweden is suitable for forest growing, the soil possessing little fertility for agriculture, it is pointed out. As a result of the far-sighted forestry legislation adopted long before we in this country began to make any headway in the subject, timber growing has become "without question the outstanding feature in the industrial economy" of the nation.

In our own Southern States we have a longer growing sea-

son than Sweden. If the rate of timber growth in Sweden is comparable to that in Canada, then in the South we can grow timber at least four times as fast as it can be grown in Sweden. Since the slow growth of timber in Sweden can be commercially profitable, it is not surprising that our Southern States are at last adopting legislation looking to the encouragement of reforestation of cut-over lands where the timber grows four times as fast as it does in Sweden, or that our great lumber companies and others are going so heavily into the practice of forest farming. The great wonder is that with so fertile a region for timber farming as the South provides, we were so slow to adopt sensible, constructive legislation.

A year ago it was estimated that our forest areas were being denuded about five times as fast as they were regrowing, and it is not likely that the short space of one year has been sufficient to effect any noticeable change in this ratio. However, it has sufficed to bring about very marked advances in public understanding of forest values as measured by legislation, and the change from the old ratio of forest destruction to a new one of forest farming will follow gradually. Already we have in this country, it is said, 21,000,000 acres of forest land under intensive cultivation, and the development of commercial reforestation is still in its infancy. We may look forward with a reasonable degree of confidence to the time when, as in Sweden, our timber production will equal our timber consumption.

"WORLD NEEDS 15,000,000 BALES OF COTTON."

FRANK B. HAYNE, a widely-known cotton merchant of New Orleans, in the course of a letter to Commerce and Finance of New York makes the following statements:

"I think the present crop will turn out somewhat smaller than the Government's last estimate and, as the statistical position of cotton is getting stronger every week, I look for materially higher prices before the first of August. Consumption is steadily increasing and the world will need a fairly large crop next year, say around 15,000,000 bales, and a crop of that size should be worth at least 20 cents.

"If, however, the South should raise a crop anything like the 1926 crop, I look for cotton to sell below 15 cents. A 13,000,000-bale crop next season would net the South several hundred million dollars more than a 15,000,000 crop and probably \$500,000,000 more than an 18,000,000-bale crop."

The view expressed by Hr. Hayne that a large cotton crop, such as was raised in 1926, would be disastrous to the South is in our opinion unquestionably sound. The world will doubtless need 15,000,000 bales of Southern cotton, but a 13,000,000 bale crop would bring to this section a far greater profit than would a 15,000,000-bale crop, and if the South should unfortunately raise a still larger crop it would probably have to be sold at much below the actual cost of production.

Upon the cotton growers of the South depends the alternative as to whether they are going to win prosperity out of the coming cotton crop, or still further increase their poverty. Every banker and merchant and, indeed, every other business man in the South is vitally interested in seeing that the cotton growers do not put in a large acreage; for, without regard to what the final crop might be, a large acreage would in itself put down the price of cotton to an unprofitable figure.

IT is illegal for union labor to boycott non-union made materials. Massachusetts union carpenters had refused to handle non-union building materials, but the Supreme Court of Massachusetts decides that such a boycott is illegal in that State.

World Speed Automobile Records to Be Broken if Possible.

Daytona Beach, Fla., January 30.

Editor Manufacturers Record:

Celebrating the twenty-fifth anniversary of the inauguration of automobile races and speed trials on the Daytona Beach Ocean Speedway, on which all straightway auto and motorcycle records have been made, what are to be known as the International Speed Classics will be held on the famous beach, February 15 to 23, inclusive. The Chamber of Commerce Racing Association plans an annual revival of the international contests and interest manifested in the forthcoming event indicates that success will be achieved.

Among those who will attempt to lower the record of 203.79 miles an hour, made on the course last March by Maj. H. O. D. Seagrave, Baltimore-born Briton, in a Sunbeam car, are: Frank Lockhart of California, who will drive a Stutz Special; J. M. White, Philadelphia manufacturer and sportsman, who will drive a Triplex of his own origin, and Major Malcomb Campbell, another English sportsman, with a car known as Bluebird Special. These drivers believe they will eclipse Major Seagrave's showing by a margin of several miles.

Seagrave's speed of a mile in approximately 17 seconds causes race lovers to speculate as to the possibility of lowering the record and calls to mind the terrific increase in automobile speed since racing began on the beach a quarter of a century ago. In 1903 Alexander Winton, driving a "Bullet," went a mile in 52½ seconds, and the following year William K. Vanderbilt, who sponsored the Vanderbilt Cup events for years, reduced the record to 39 seconds. From that time the speed of motor-driven vehicles increased almost annually until Seagrave made his seemingly impossible showing, with all records for both distance and sprint events credited to Daytona Beach because of the length, width, hardness and safety of the beach course.

In the old days the races attracted notables from England, France, Italy, Spain and Germany, and the leading stars of these countries have raced and established records here. A feature of the February races will be a banquet to pioneer drivers who are living, among these being Henry Ford, now the world's richest man; William K. Vanderbilt, Barney Oldfield, Bob Burman, Walter Christie, Ralph DePalma, Tommy Milton and others. The races were inaugurated in 1903 by "Senator" W. J. Morgan of Newark, N. J., and he, too, will be an honor guest.

FRANK L. HUFFAKER.

"What Texas Makes Makes Texas."

Topics of importance on legislative, agricultural, industrial, transportation, navigation and kindred lines will be considered at a State-wide industrial meeting of the Texas State Manufacturers Association, called by President Albert T. Clifton of Waco for February 15, at Austin. A meeting of the Texas Industrial Committee, named by Governor Moody, has been called in conjunction by Chairman J. W. Carpenter of Dallas.

The speakers will be headed by Governor Dan Moody and outstanding industrial leaders and among the subjects scheduled for discussion are: "Lower Taxes," "Developing Our Basic Industries," "What Texas Makes Makes Texas," "Government in Industry," "Fuel and Power Advantages Found in Texas," "What Should Texas Do With Its Over 4,000,000-bale Cotton Crop," and "Inviting New and Needed Industries to Texas."

All commercial organizations in the State and all individuals are invited by the Association to attend. The officers, besides President Clifton, are: Vice-presidents, J. Perry

Burrus, Dallas; E. A. Dubose, San Antonio, and Carl L. Pool, Sherman; directors, Charles A. Baldus, San Antonio; H. H. Brown, Gulf; F. M. Burkhead, Houston; D. W. Campbell, Hillsboro; W. S. Farish, Houston; J. P. Gibbs, Seguin; W. F. Gohlke, Austin; W. E. Justin, Fort Worth; E. H. Kifer, San Antonio; Frank Kell, Wichita Falls; P. George Maercky, Freeport; W. B. Munson, Jr., Denison; Eugene Risser, Bonham; C. A. Sanford, Sherman; I. A. Stein, Galveston; Charles R. Tipples, Three Rivers, and the officers and Mr. Carpenter.

Laurel (Miss.) Bank Promotes Agriculture.

Long actively interested in the agricultural work in its area, the First National Bank of Laurel, Miss., in its January Bulletin outlines some details of its co-operation with its farming constituency, which has gone far toward furthering the prosperity of the bank and its clients and all its section. Thousands of farmers, the bulletin shows, have been loaned money with which to purchase land, build homes, barns or fences, to buy trucks and to make crops.

For this agricultural service, the bank maintains an agricultural department and also pays a marketing man to assist the farmers by finding a market for the various truck crops grown in its area. Many formulae for spraying, fertilizers, chicken and hog feed have been furnished and a sympathetic hearing is given to every farmer who has a problem to solve; no reputable farmer with reasonable security has been refused a loan, and no customer has been charged a bonus for a loan. The bank conducts contests on such lines as diversification, chicken raising, garden and canning, dairy production and kindred activities, and as stated in the bulletin: "The bank does not believe in a one-crop system of agriculture in this section."

Government Awards Contract for Drilling Sixth and Seventh Potash Test Wells.

Preliminary churn-drill operations have been completed at potash well No. 6, near McCamey, in Upton county, Western Texas, and core drilling will begin immediately, announces the Bureau of Mines, which has engineering supervision of drilling operations in the Federal Government's program for the development of commercial potash deposits in this country. The top of the potash-bearing salts lies approximately 500 feet beneath the surface. The probable depth of the hole will be about 1500 feet. A contract for this well and well No. 7 was awarded to the lowest bidder, the Pennsylvania Drilling Company of Pittsburgh.

After the completion of potash well No. 6 the drill will be removed to the site selected for well No. 7, on the Hughes-Roxana Lease, about 10 miles north of McCamey, and approximately seven miles distant from the site of well No. 6. The top of the salt formation at the site of well No. 7 lies about 450 feet below the surface. The depth of this hole will range from 1200 to 1500 feet. Samples taken from churn-drill sludges from oil wells drilled in the vicinity of wells 6 and 7 have shown the presence of potash salts. Both wells should be completed in the early spring. It is expected that at least one more test well can be drilled under the appropriation for the current year.

Potash test well No. 5, located in the northwest quarter of Section 16 of the G. C. & S. F. Survey, on Harris Brothers' ranch, Crockett county, Texas, was completed December 2, at a depth of 1799 feet, 2 inches. At this well the churn drill was used to a depth of 1161 feet, 4 inches, and the diamond drill used for the remaining 637 feet, 10 inches. A perfect core recovery of 637 feet, 10 inches, was obtained through the salt formation.

The Tenth Generation.

By HARRY STILLWELL EDWARDS, Macon, Ga.

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THE old lawyer hung up his telephone receiver and turned slowly back to his deep-seated leather chair. His appearance and every motion betokened the Southerner of a type almost extinct. The message he had received disturbed him not a little. A prominent capitalist and bank officer had asked permission to call and discuss a personal matter with him. For privacy, as he had explained, and to avoid interruption, he preferred to come to the lawyer's residence. Their names are not important in this record.

Seated again, the old practitioner crossed his long, thin legs, leaned back and matched his fingers in thought; a characteristic habit. He had granted personal interviews in his home on other occasions and always with serious aftermath. The gentleman who had just 'phoned was, by common consent, a man of vast wealth. But you can't always tell. There had been serious disturbance in financial circles lately, far-reaching in its results. And there were always speculation and dishonest employees. And divorce. He wondered what there was in the air of importance sufficient to send this busy man across the city for an interview with one but slightly known to him, and not at all professionally. Presently, he arose, drew an easy chair into the strong light of his hooded lamp, and resumed his own in the twilight, which half concealed the luxuriousness of the spacious Colonial room. Fifteen minutes later a car door slammed outside and an aged negro butler ushered in his visitor.

The capitalist was a man of about fifty; short, strong of frame, vigorous, quick of motion and alert; the opposite, in all, of his host. But he had the face and eyes of the dreamer. Or so the lawyer decided after the customary courtesies of speech had been exchanged, and the visitor was seated.

"First, I wish to thank you," began the latter with perceptible embarrassment, "for giving me some of your leisure, and permitting this invasion of your home. Perhaps, in a business way later, I may be enabled to show my appreciation."

The lawyer smiled, lifted a hand slightly and shook his head.

"Let us proceed without regard to business. You spoke of some personal matter. I am glad, sir, for this opportunity of meeting you socially. Our paths have not crossed often. How may I serve you, sir? Will you smoke?" His hand fell on a box of cigars.

The visitor declined with a gesture.

"I am at a loss, Colonel," he began, looking into the shadow and hesitating, "just how to introduce my subject; but, for

Harry Stillwell Edwards is the author of many books widely circulated throughout America and is one of the best known and most beloved writers the South has produced. In this article he has written a romance without hero or heroine, not a love story, but a romance of the power and possibilities of educational work from an entirely new standpoint, so far as we know never covered before. It is a story that grips the mind and the heart of the reader with an intensity that compels him, when once he has started on the story, to go straight through to the end. People who are interested in the welfare of boys and girls, in educational opportunities for them, in the responsibility of wealth to safeguard their future and all future generations, will find in this presentation of Mr. Edwards a story of tremendous power. Its widest circulation throughout the country would do an immense amount of good. Though Mr. Edwards has written many books and many newspaper articles, all of commanding interest, and one of his stories, "Aeneas Africanus," has had a circulation of about one million copies, he has probably never written anything that will make a deeper impression upon the minds and hearts of the readers than this story, "The Tenth Generation."—Editor MANUFACTURERS RECORD.

an opening I might say that I have an heir coming, ten generations away, and I'd like to devise some plan to protect him financially; together with his forebears back to my six-year-old son. Can it be done?" A playful, but appealing smile, accompanied the odd question. "Sounds a little foolish, I am afraid."

The old Southerner, round-eyed with surprise for a moment, flashed him a message of appreciation.

"On the contrary, sir, the issue is of tremendous import. And I have never heard it better framed." The other hastened to add:

"I should have said in advance that while I come to you as a lawyer deservedly noted, I come, mainly, because I have read with full appreciation and deep interest your recent articles on sociology. I have derived much from them." Again the face of the lawyer wore its slow, friendly smile. He nodded, but did not speak at once. After a moment or two he said:

"Before I answer your question, do you mind telling me, briefly, something of your family and of yourself? Not to gratify mere curiosity; I have a reason."

"I think I understand. Well, I'll make it as brief as possible, under the circumstances. I am the product of eight Colonial families that figured more or less actively in the Indian and Revolutionary wars—"

"Eight?" The shaggy eyebrows of the host went up.

"Yes. There are quite a number of names on the record, as I learned through some newly discovered relatives in the North. I have had them looked up, too, by a genealogist—my wife aspires to the Colonial Dames. They came over from England, Scotland, Ireland and Wales in the latter half of the Seventeenth Century—"

"Say about two hundred and fifty years ago; two hundred and fifty before your boy was born."

"Yes, about. By the way, counting twenty-five years a generation, that was just ten generations back, wasn't it? Funny that we should have started to figure that distance ahead and have landed back there."

"It is, indeed!" The Southerner was smiling broadly. "Perhaps you now understand my request better. You, yourself, are the boy of the tenth generation, one of your Colonial ancestors may have wished to provide for. Well, one of them, maybe, did, but unknowingly. Proceed."

"Between then and now I don't know much of what happened to my family. As far as I have been informed, I am the only one that ever amassed any considerable fortune. They were mostly improvident and spenders, I suppose."

"And now, about yourself."

"Why, and how, I succeeded is still a mystery to me. We were desperately poor and ignorant; mill people usually, I understand. The fact doesn't disturb me, but there is no use to spread it. My wife cares very much. Of my sisters we won't speak. They were servants, and lived according to their lights, I suppose; but the lights went out, here and there. The boys took any job that offered when they worked at all; and mated without marriage. Our father was—well, just a sot, spending on drink what he could take away from the family. One brother died in a penitentiary out West; one in a barroom fight. Another just vanished. But my mother was good. I was the youngest and she clung to me until death ended the unequal struggle. Her people were good people, she said. She was fond of telling me traditions of what they did in America's three wars. I was proud of them. Possibly I was, in reality, her only son. When she died I ran away from the others—a boy of nine—and lived a hard life for years; selling papers, shining shoes, doing whatever offered, if there was a dime in sight. But always I carried a hope and ambition. With a steady job at last, I took on night study and got a start. There were helping hands, of course. Years after, I was prosperous—highly so. I had made a character for myself and was a trusted bank officer. Then came the great war. I had a chance at contracts and low-priced stocks that advanced five or six hundred per cent. And I struck it rich in Florida. And then my oil stocks proved good. Before I realized it the millions had come.

"And now, sir, perhaps you, too, understand my question better. God helping me, my boy, and the boys and girls who are to follow him, shall never travel the hard road my little feet trod, the way by which I came. It is thought that money can do anything. Can it protect that boy two hundred and fifty years away? And those between him and me? Can it? Can it? If so, how? The matter has become almost an obsession with me. I lie awake at night, and dream of those unborn children. I see them starving, stealing, slouching in the shadows, haunted by fear, hunted by the police—the boys, the girls diseased, in the gutter, objects of charity! Good God! It is not imagination with me, it is a picture from memory; it is real. Show me the way out, my friend." He arose and began to pace the room.

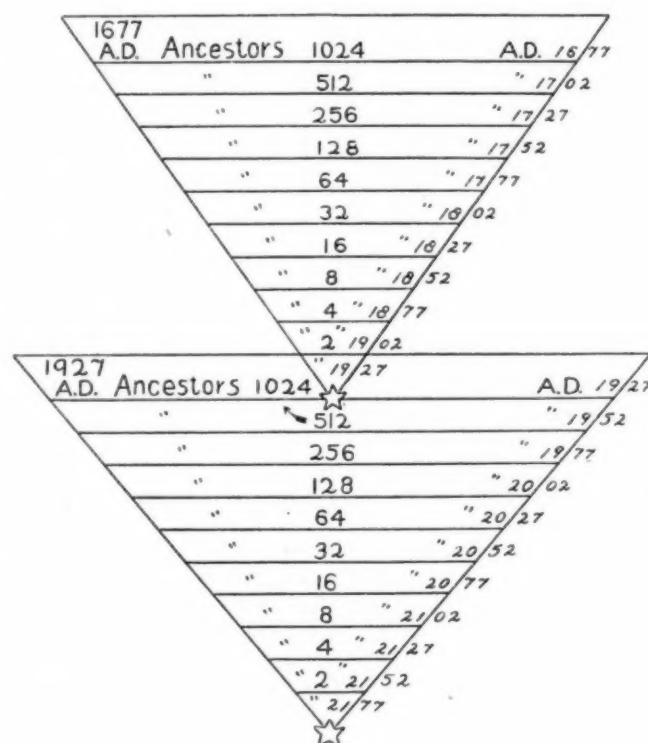
The Southerner, his hands matched before his face, but shaking a little, sat rigid, otherwise, until the burst of emotion had spent itself, and, with a muttered apology, his guest had resumed his seat. Then, suddenly, without reference to what had been said, the old lawyer straightened in his chair and began to talk:

"There is in the death chamber of our penitentiary tonight, awaiting electrocution, a young man. The picture of his unshaven, animal face pressed against the bars, his staring eyes, is before me as I speak. His name does not matter. In fact, the courts do not know it. He was convicted as 'Billy, the Rat,' and is known to the underworld as such. He illustrates some theories of mine, and I have taken pains to investigate his history and, in fact, to seek leniency for him. I have his real name under a pledge of secrecy, as he is an escape from another prison. The Rat is still a young man; a hopeless degenerate; an overgrown boy with a mind so utterly untrained as to be incapable of lofty purpose or ideal. Without education, this man zig-zagged through society seeking food and the gratification of other physical cravings; engaging in every sort of crime that promised drink or dope until, in a moment of desperation, cornered by the law, he slew one of its officers. I have made quiet search into his heredity and find that he is the natural product of ignorance and vice. The generation ahead of him held several criminals; and beyond them his people were of bad repute. One of his kinsmen in this generation, however, is a preacher; a fine type.

"It seems strange that out of the same soil, apparently,

two such different men should have come. The explanation is, they came by different routes. Back of this preacher, somewhere, were education and morality and trained minds. Back of the other weakness and crime; absence of rightful environment. One was to be lifted, the other cast down. In the case of the latter bad blood, freighted with error, had trickled down through the centuries, following the lines of least resistance; ignorance mating with ignorance; crime with crime. But both preacher and prisoner are natural products of pre-existing causes and environment. Whether Billy, the Rat, should be electrocuted is at least open to debate. Personally, I am not in favor of electrocuting any natural product."

He had arisen and was slowly making his way back into the shadow as he laconically delivered himself of his conclusion. Without apology or explanation the old man seated himself before a desk over in a corner, turned on a light, and for ten minutes or more busied himself over a large sheet of paper. Finally, he turned off the light and came back to his guest. Drawing a chair beside him, he seated himself and held up the paper on which were two triangles, one above



the other, both composed of lines, and each poised on its apex. At each apex was a star, the upper star being in the middle of the longest space of the lower triangle.

"I am going to ask you," he said, "to imagine that the star between the two triangles is your six-year-old son; you and his mother the line above it; his four grandparents the line above that; and his eight great-grandparents the next line up. And so on to the top line, which is the tenth and longest, and represents all of the boy's ancestors in the generation of two hundred and fifty years ago; that is, in 1677. Each line in the triangle represents a generation, and on each I have written the number of the boy's ancestors in that generation. They are ascertained by simply doubling the number from him, up. I am holding the star that represents the boy on a level with your eyes to assist your imagination to climb the ladder, for we always speak of ourselves as descended from, though in the scale of life we really ascend. Assuming that you have scaled the ladder, you are now at the top, and in the generation of 1677, two hundred

and fifty years ago. Are you satisfied that every individual on that top line is a Colonial ancestor of your six-year-old boy?"

"Undoubtedly." But the capitalist spoke with hesitation, frowning in bewilderment.

"You spoke of being the product of eight Colonial families. Remember? Well, in that top generation you had a thousand and twenty-four ancestors. You were descended from five hundred and twelve families then in existence. Or, to be exact, from five hundred and twelve couples then, or afterwards, mated.

"Now let's travel the other way, down to that boy two hundred and fifty years off, through the generation of other children you dream of at night. The second triangle, or diagram, is a copy of the first, differing only in the years named. The first thing that will strike you is that in the generation of your six-year-old there are a thousand and twenty-three other boys and girls who are going to mate and produce that remote heir of yours. On the principle that the oak is in the acorn, he already exists in them, if they are living. These thousand and twenty-four youngsters are going to grow up, and each will contribute something to that boy coming in 2177. Because of some of them, maybe, he is going to succeed nobly; or, because of some, he is going to fail miserably, perhaps. You say this is admitting too much for heredity. We shall not stop to argue it. Our prize stock—chickens, dogs, race horses—answer the objection. But for heredity, races of men could not have been built up. Let us just recognize that a man is inevitably the sum of all his ancestors and pass on.

"It is impossible to deny that in this generation of boys and girls, to which your six-year-old belongs, are a thousand and twenty-three more whose blood will mingle with his, about two hundred and fifty years from now, just as certainly as the sun will rise tomorrow; provided your son's line extends that far, and we have assumed that it will.

"I see you are startled; and well you may be. You will hardly pass a child on the street from now on without seeing in him or her, possibilities of blood-union at some remote time, if not during your life. The boy of 2177 is going to number you among his ancestors with pride, perhaps, if someone keeps the record; but he is going to have in him the blood of more than two thousand children; the sum of the generations between him and you. They will represent a cross-section of society; descendants of lawyers, doctors, engineers, firemen, merchants, laborers in mines and workshops and mills; sailors, soldiers, farmers, preachers, tramps and crooks.

"Now, my friend," and the old man wiped his glasses and smiled into the troubled face by his side, "I ask you, as one sensible human being of another, why, looking only to the little lad of 2177, you should be more concerned with your six-year-old and his direct heirs than with the thousand and twenty-four around him, whose blood is going to mingle with his, and who are today playing around somewhere? One thousand and twenty-four who are to be the direct ancestors of the boy of 2177.

"And I am going to ask you further, wouldn't you say, knowing as you do, that it takes more genius, more fine qualities to conserve wealth than it does to amass it, that the chances for doing anything for that far-away boy with your money, kept as money, are rather infinitesimal? You speak of that boy of 2177 as yours; why, there is to be less than a thousand and twenty-fourth of you in him; and every one of the ancestors in the generation of your six-year-old will be closer kin."

"I think," said the hearer, gently, "I am beginning to see light. But go on, if you please."

"You will see the sunrise if you face the East, presently. There is only one inevitable conclusion. You can only endow

that far-away boy, that tenth generation and those heirs between him, and you, by endowing the whole generation to which your living son belongs. Only in this way may you stand a chance to benefit the thousand and twenty-four who are to produce the boy of 2177, and the generations of your blood and his blood to precede him. Dismiss the idea that you can tie your money to the line of little lives that will run straight down from you to him. You would have no guarantee of good, if you could. The value of money is not an inherent element; the value lies in the handling of it. Specialized education, in fact, with something added. Money is but a tool, a weapon, an agent. Neither money, sword nor wrench is effective in untrained hands. You cannot transmit your skill. It is the history of money that one generation assembles it, the next separates it, and the next dissipates it. The Spanish say, 'Butcher, caballero, don, butcher!' We say: 'Three generations from shirt-sleeves to shirt-sleeves.'

"Place your reliance and your money on education. It is your one chance to endow your descendants with happiness. You cannot, by any possible means, know the thousand and twenty-three boys and girls to the right and left of your six-year-old, who are to share with him the honor of bringing into being that little chap ten generations away, and another thousand of his ancestors. You must work for their whole generation, and thereby for the generations that follow to avoid missing a life vital to that boy. You can only defeat the human law against entail by endowments of institutions of learning and of uplift, whose charters are renewable indefinitely. Yale, I understand, has funds more than two hundred years old. A Colonial was, maybe, looking forward to his remote descendants when he gave it. Colleges, hospitals, churches, laboratories of scientific intent, conservatories of art and music, these are the channels through which your wealth may flow to complete entail, and give wealth of mind, body and soul to the unborn.

"I have spoken of those thousand and twenty-four living ancestors of your far-away boy; the boy of 2177. Let us picture them playing now around the parks and waste places; or working in fields, mills, shops and streets; children of the rich and poor, of the righteous and the erring. When your six-year-old reaches young manhood one of these may shine his shoes, another shave him, another drive his car, another serve his meals, another take his dictation. He will dance and flirt with others. Then one day, out of the mystery will come a girl with shining eyes to lay her hand in his. It may be the little waitress, the stenographer or the daughter of a millionaire. She may be of the slums. You can't tell. You, yourself, illustrate how quickly social changes occur in this great country. Whoever she may be he will see her with new vision as the gift of the centuries. This little girl, possibly not yet born, is as inevitable as the tide. She, with your son, will stand at the head of the ladder, nearer of kin to the boy of 2177 than you will be. And she will provide little feet for the second round; at least, she will provide two of them.

"Here is your field, the workshop of your dollars. If you have the new vision look around you and reflect. Your great interests are, to a large extent, here in Georgia; your hundred thousand dollar home, your shares in mills, factories, public utilities, bank. This is the growing end of the Union. People are coming in much faster than they are going out. Georgia has gained 500,000 citizens since 1900, a twenty per cent increase in one generation. It is certain that hereabouts will be the home of generations of those whose blood will unite with yours; it is more than likely that most of the thousand and twenty-four I have been talking about are within this and adjoining States. Your millions are as yet idle as to their education, but not the money, the labor, the sacrifice of others, thank God! For those thousand and twenty-three children, sons and daughters of God, are working

while you calculate interest to benefit a thin line of direct heirs. Martha Berry in North Georgia, with her great school, it may be, has endowed your boy of 2177, through gifts of education and Christian training, while you waited; that already he is indebted to philanthropy, to charity. Make it positive that he is so indebted for his full chance in life; for, stretching down through the Virginias, Kentucky, Tennessee, Arkansas and the Carolinas are now great schools, born of philanthropy and Christian charity, lifting the virile mountain people to a higher plane of usefulness through education, free of charge. It does not seem possible, or at least, likely that the descendants of these, spreading out as a fan through ten generations and aggregating hundreds of thousands will miss all the lines leading into your distant grandson.

"You may take it as certain that some of the two thousand of his ancestors between you and that boy will be crowned in the great colleges of the South—in this State in Wesleyan, Agnes Scott, Bessie Tift, Milledgeville, Brenau, Lucy Cobb, Andrews, Emory, Mercer, Oglethorpe and others. If they were all there now in these colleges, the boy of 2177 would be amongst them, brain of their brain, blood of their blood, bone of their bone, the inevitable heir! Figure it out—others have—a North Carolinian had the vision. He divided his great wealth between a little daughter and the boys and girls around her, whose blood is to mingle with hers in the unborn centuries, the usage to pass into countless lives as education. This was James B. Duke. He backed his love for his unborn descendants and their ancestors' collateral with his daughter with forty millions of dollars.

"But if no inheritance born of charity is traveling toward that little grandson of yours, the general proposition is not disturbed. The underlying principle is general and unescapable. What is true as to yourself is true of and to every individual of means in New England, in the North Central States, the Middle West, the West, the Southwest and the whole of the South. None can hope to make his money a blessing to his descendants except through Christian education that will elevate each generation as it arises. '*E pluribus unum*' fits the family as it fits the Union. The one of 2177 will represent the many as a product. You cannot slight any one of them without risk to that one, and your care of the many may not wait on a day, for half of them are here now, around you, some, perhaps, hungry, some stumbling in the dark. And it may be, as your dreams foretold, already in the gutter or heading toward a prison.

"My friend, we are builders, all of us, without realizing it. We are building such a nation here in America as the world has never before seen, nor any man dreamed, except here and there a poet. Our wealth aggregates four hundred billions of dollars and increases by fifteen billion annually. We have over one-third the wealth of the world, and of the great industries based on coal, iron, oil. We have more than fifty per cent of the world's output from these sources, and are consuming more than fifty per cent of what the world is consuming of these things, cotton the exception. We are top-heavy with wealth. Philosophers predict a fall. They tell us every country of antiquity has come a cropper, and that our turn must come. I disagree with them. Absolutely! Positively! Eternally! I denounce the lie!" The old lawyer's fist smote the table thrice, till the windows rattled. "We are not here to fail, because we are building for eternity, for God. And our tools are the hearts and souls of good men and saintly women. The prophets of evil have never heard of a nation where Christian education extended to every individual. No such nation has ever before arisen. And back of every ruined nation that history records was always one irresistible, ever-present cause of failure—Ignorance.

"The ideal to which we work in this country and which we approach steadily every day is universal education of the

highest possible character. A vast majority capable of understanding and valuing the laws of life, of health, of reproduction, of nature, of psychology, of morality, of government, of finance, of exchange. No such nation has ever flourished on earth; but around you is one in the making, a nation whose members are bound to each other by the principles of justice and religion and by love. It is within the power of every man of wealth to speed its perfection; and if one needs anything more of stimulus than the thought that he is building for God, for posterity, for eternity, let him consider that hoarded wealth is dangerous and endangered, and use a generous part to insure the rest. The best insurance at last for wealth, personal and national, is Christian education. For wealth can exist only by sufferance of the majority. When that majority is swayed by knowledge and righteousness the holdings of the individual are safe, the wealth of the nation is safe. Then, and then only.

"There, sir; if you will pardon my earnestness and the personal application, there is your field, your mission; the mission of your dollars. Perfection in one, or even ten, generations is not humanly possible. Too many ancestors' ghosts have to be laid. But we may, we must work at it and to it—to the ideal. Give and give and give to the cause of education; hundreds, thousands, millions, as you may. Do not let the converging lines of heredity that are to unite in that far-away boy of yours, and the children ahead of him, flow to him, to them, through ignorance and the crimes born of it."

The guest, fascinated, had hung on the words of the speaker, expressed with the fervor of soul and music of voice that made the Old South famous for its oratory. The pictures summoned up flashed before him vividly. So vivid, so real were some of them that, awed and shaken, he touched the table for support. For the speaker had unconsciously risen, and he, himself, had been almost literally lifted to his feet. The two men stood facing each other in silence for the moment. They seemed to have just returned from far scenes, to have met for the first time. The capitalist broke the silence, his voice almost a whisper.

"That ideal, that perfection of mind, body and soul of all in the generation of my little son; those thousand and twenty-four who are to meet two hundred and fifty years away; and the other thousand between; that ideal—suppose it were humanly possible, what then?" The eyes of the old man in answer shone with a sudden light, as though somewhere behind them in the depths, home of his soul, abiding place of immortality, a flame had kindled.

"Ten generations of God-loving beings, sound of mind, body and soul, and full of the beauty of holiness, would give us back Jesus Christ on earth! And that is just the way He will come—the product of His own laws. Any other way would be illogical."

"At least," said the visitor, gently, reverently, and with a singular, new-born humility, his face aglow with spiritual light, "at least, I have my problem reduced to simple terms; it is Billy, the Rat, or Jesus Christ!"

Permit Asked for Power Project in Georgia.

West Point, Ga.—J. Smith Lanier of West Point, Frederick H. McDonald of Atlanta and B. H. Hardaway of Columbus, have applied to the Federal Power Commission, Washington, D. C., for a preliminary permit for a power project near West Point on the Chattahoochee River, in Chambers county, Alabama, and Troup and Heard counties, Georgia. One or more dams are contemplated across the river at Adamson or Wehadke dam sites, with a head of about 70 feet, and an initial power house installation of 15,000 to 30,000 kilowatts. The project is intended not only for the generation of power, but to provide for flood control and afford water transportation to Franklin, Ga.

Louisiana Sugar Industry Revives.

By THOMAS EWING DABNEY, New Orleans.

For more than a century the production of sugar in Louisiana was tremendously profitable, but the process was extremely costly and wasteful before the development of modern machinery. Nevertheless, the yield of the fields in the early days was so heavy that there was a glorious profit, in spite of waste. The industry went to the bad because the planters, finding themselves with tremendously complicated and expensive sugar houses, concentrated on the manufacturing end and neglected the basic necessity of production. They ceased being farmers and committed most of the agricultural sins in the calendar. The Louisiana yield dropped off in the period from 1894 to 1914 from an average of 250,000 tons of sugar a year to 42,112 tons in 1926 and 77,840 tons in 1927.

Mosaic disease was the cause. Dr. E. W. Brandes of the Department of Agriculture warned the planters against mosaic disease in 1919, the year when the sugar production made its first startling drop to 108,035 tons, as compared with 250,802 the year before. But the planters paid him no heed—they were not interested in farming.

In 1922 Louisiana began to turn back to first principles and the managers of Southdown plantation planted a few seeds of a cane that had lifted the Argentina sugar section out of the mosaic disease despair, a variety known as P. O. J. 234. The cane raised from this seed was planted the next year, and that crop replanted the following year, and so on down to the present time. In 1927 Louisiana harvested 400,000 tons of P. O. J. 234 cane, enough to plant the belt twice over.

There is already planted in cane for next season about 150,000 acres, a mighty big acreage, compared with recent showings. It also harvested 40,000 tons of P. O. J. 213 and P. O. J. 36 canes, two other varieties which give even greater promise than the 234. This has been planted and from it Louisiana should gather a crop of 1,000,000 tons in 1928.

These canes have saved an industry in which \$200,000,000 is invested. They are immune to mosaic, and they make a tremendous production not only of cane, but of sugar as well.

Though planting and cultivating conditions in 1927 were bad, the average production of the P. O. J. group was 20 tons to the acre, or double the production of the old canes. On some plantations a considerably higher yield was made, up to 42.6 tons at the State agricultural experiment station.

On Raceland plantation a remarkable comparison between the sugar content of the old and the new canes was made. Raceland ground, up to November 30, 1927, 32,000 tons of cane. Of this 42.7 per cent was of the P. O. J. varieties and 57.3 per cent of the old canes. The average sucrose content of the old canes was 11.32 per cent; of the P. O. J., 13.43. That means a difference of 25 pounds of sugar to the ton of cane, and the P. O. J. cane yield is at least double that of the old varieties. A sucrose content of 13.43 means at least 180 pounds of sugar to the ton of cane and, at 20 tons of cane to the acre, that is 3600 pounds of sugar to the acre.

As the mills operate on the basis of \$1 per ton of cane ground, it is obvious what the increased production means to the manufacturing end of the industry. There are about a hundred sugar houses in the State, worth from \$200,000 to \$1,000,000, on a replacement basis, and only half of them operated last year.

About 275,000 acres of cane were planted in Louisiana in the "good old days." The 1927 acreage was 114,000. The 1928 acreage is 130,000 acres of plant cane and 20,000 acres of stubble. At 20 tons of cane to the acre, this promises a yield of 3,000,000 tons, or 225,000 tons, possibly, of sugar. By 1929 the probabilities are that there will be 300,000 acres

in cane. In a few years' time it is conservative to predict a sugar crop worth \$50,000,000 a year. The value had dropped to as low as \$7,000,000.

It is also conservative to forecast a return of population to the sugar parishes of the State. Between 1910 and 1919 the principal sugar parishes of Louisiana lost 56,000 persons, one-eighth of the population. The loss has been heavier since 1920. The demand for labor, at good wages, will draw these people back home again.

For \$1,250,000 Power Plant on Flint River.

J. E. Sirmine & Co. of Greenville, S. C., who have been engaged by the Crisp County Power Commissioners, Cordele, Ga., as consulting engineers for the proposed \$1,250,000 hydroelectric project on the Flint River, near Cordele, advise that, with E. S. Killebrew of Albany, Ga., who is engineer for the project, they are checking plans and other data. The plant will have a capacity of 18,000 horsepower. J. J. Williams is chairman of the commission.

\$10,000,000 Oil Refinery and Terminals for Houston.

Houston, Texas.—The Roxana Petroleum Company, St. Louis, has purchased about 660 acres of land with a frontage of 2422 feet on the Houston Ship Channel for the construction of a refinery and deep water terminals at a cost of \$10,000,000. Plans for the improvements are being drawn and construction is expected to begin in the spring. The company will also build steel storage tanks and construct a pipe line from the West Texas fields, it is said.

Du Pont Reports Larger Volume of Business and Increased Earnings in 1927.

The annual report of the E. I. du Pont de Nemours & Co. for 1927 shows income of \$41,113,968.36, as compared with \$37,199,164.45 for 1926, with total current assets, as of December 31, 1927, of \$70,529,985.54, against current liabilities of \$8,868,904.89. The total gross assets of the company are given as \$351,440,262.47, and the total investments, including General Motors stock and securities of controlled companies and miscellaneous securities, total \$175,726,737.64.

Dividends on the company's common stock during the year amounted to \$15.50 a share, of which \$2 was accrued and charged against surplus of the preceding year, the total amount paid on common stock from 1927 earnings being \$35,930,661.50, not including an extra dividend of \$3.75 a share, declared in 1927 and paid January 4, 1928.

"The volume of the company's business for 1927 was about 10 per cent larger than the previous report," the report adds, "resulting in the increased earnings, despite the fact that generally lower prices were received for the products. Sales of virtually every department showed an increase, though there was a slight falling off in commercial explosives, due to the mid-western coal strikes."

The Du Pont Company has discontinued its nitrate mining operations in Chile and has sold its properties in that country, but will continue to import and sell nitrate of soda for agriculture and other purposes. The report adds that, "because the diversified chemical industries which constitute the company's business are fundamentally related, it is planning to go more deeply into fundamental chemical research."

Widespread Industrial and Building Activity

Diversity of Big Scale Industrial Operations in the South a Cause for Optimism.

The passing of the first month of the new year found the South embarked upon an industrial development program of large proportions, for in addition to the big projects let to contract during the month work was vigorously pushed on numerous developments of a major nature that were placed under construction in 1927. This year will, according to present indications, be one of great building and industrial activity in the 16 Southern States.

The outlook is particularly encouraging considering the wide variety of the new projects of an industrial character let to contract and concerning which preliminary announcements were made last month and the fact that these new enterprises are located in practically every section of the South. A review of the projects reported in January shows electric companies are speeding up their construction activities to meet the demands for power; that telephone facilities in every section of the South are being extensively improved to keep pace with industrial and business expansions; that textile mills, despite the depression that has been more or less general in the industry recently, are erecting new units and bringing up-to-date existing plants; that harbor improvements and railroad facilities are being expanded to care for the growth of the section's commerce; and that many new industrial plants are being built by local and outside capital and that established Southern industries are increasing their outputs to supply the demand for their products here and abroad.

It is apparent that a well-rounded forward movement is under way and that the South's development as the nation's greatest material asset is progressing on a sound basis.

Many Outstanding Industrial Enterprises Under Way and Proposed.

The American Tobacco Company is erecting a big addition to its cigarette plant at Reidsville, N. C. The Davison Chemical Company is expending about \$1,000,000 for a new Silica Gel unit, a copper leaching plant, a sintering unit and allied improvements at Curtis Bay, Md. The Carbide and Chemical Corporation, a subsidiary of the Union Carbide and Carbon Corporation, New York, has started work on plant improvements at South Charleston, W. Va., estimated to involve the expenditure of \$7,000,000. The Champion Fibre Company, Canton, N. C., has under way important extensions to its plant. The Borden Company, New York city, let contracts for a big condensed milk plant at Macon, Miss. Work is being rushed on a \$2,250,000 Chevrolet assembly and body plant being erected by the General Motors Corporation at Atlanta.

The B. F. Mahoney Aircraft Company, San Diego, Cal., will establish a plant in St. Louis, Mo. A muriatic acid plant will be erected at Curtis Bay, Md., by interests associated with the Standard Wholesale Phosphate Company, who are now completing a large direct contact sulphuric acid plant. Work will begin shortly on the \$1,000,000 plant at Baltimore, for the Harbison-Walker Refractories Company, Pittsburgh, Pa. Lake Charles, La., will expend \$500,000 this year for additional port facilities. About \$1,500,000 will be expended for port improvements this year at Corpus Christi, Texas, including additional wharves, warehouses, railroad tracks, etc. The City Plan Commission, St. Louis, has approved a

plan for improving the city's waterfront at a cost of \$50,000,000, providing for double-deck traffic ways, parking areas, etc. Contracts have been awarded for the Glendale, W. Va., plant of the Fokker Aircraft Corporation.

The Carolina Cement Company, organized by Michigan and North Carolina interests, will shortly start work on a \$3,000,000 Portland cement plant at New Bern, N. C. The North American Cement Company is expending \$750,000 for improvements to its plant at Security, Md.

Great Steam and Hydro-Electric Projects to Supply South's Industries

The Georgia Power Company has outlined an expansion program for this year involving the expenditure of \$12,750,000 for additional hydro-electric development, extension of transmission lines and distribution systems and the improvement of street railway and gas service in communities served. The Alabama Power Company's budget for 1928 calls for the expenditure of about \$15,000,000 for the completion of steam and hydro-electric projects and the extension of transmission lines to meet the present demands for power. The Consolidated Gas Electric Light and Power Company, Baltimore, will expend \$6,000,000 for general construction. The Tennessee Electric Power Company plans improvements costing \$5,000,000.

Nearly \$7,000,000 will be expended by the Houston (Texas) Lighting and Power Company for increased facilities this year. The Comal Power Company will install a 30,000-kilowatt unit at the Comal plant near New Braunfels, Texas. The Northern Texas Traction Company, Fort Worth, plans improvements to cost about \$800,000. The 1928 expansion program outlined for the Knoxville Power and Light Company will necessitate the expenditure of \$1,500,000. The West Texas Utilities Company, Abilene, Texas, controlled by the Central and Southwest Utilities Company, will begin work on a big steam plant at Lake Pauline, near Quanah, Texas. The first unit will have a capacity of 15,000 kilowatts. The completed plant with three similar units will cost \$5,000,000.

Martin J. Insull, president of the Middle West Utilities Company, announced his company and subsidiaries would expend \$18,500,000 in Texas in 1928, bringing their total investment in the State to more than \$90,000,000, about \$16,000,000 having been expended last year. The Oklahoma Gas and Electric Company, Oklahoma City, will install a third unit at its Horseshoe Lake Station and make important extensions to facilities in Oklahoma City. The Savannah River Electric Company, Greenwood, S. C., has been granted a permit by the Federal Power Commission for a 120,000-horsepower project on the Savannah River to cost ultimately \$20,000,000. Henry L. Doherty Company interests are reported to expend \$5,000,000 this year in the vicinity of Bristol, Va.-Tenn. More than \$1,200,000 will be expended by the Gulf States Utilities Company for improvements in and near Beaumont this year.

Gas and Oil Industry Expands Steadily.

The Roxana Petroleum Company, it is reported, has purchased a site on the ship channel at Houston, Texas, and plans to erect a \$10,000,000 refinery. The Standard Oil Company of California will erect a \$750,000

Activity Indicated This Year for the South.

refinery near El Paso, Texas, to be operated by the Pasotex Petroleum Company. The West Texas Gas Company, Amarillo, Texas, is making surveys for a natural gas pipe line from the Panhandle field to El Paso, 410 miles, to cost about \$10,000,000. The Phillips Petroleum Company, Bartlesville, Okla., plans three carbon black plants in the Panhandle field, Texas. Belchle & Laskey, Shreveport, La., plan a \$6,000,000 gas line 240 miles long to serve 25 towns and cities in Louisiana. The Lone Star Gas Company, Fort Worth, Texas, will expend \$5,000,000 this year for pipe line extensions.

\$150,000,000 Coal Merger Contemplated.

The merger of 25 or 30 leading companies producing low volatile and smokeless semi-bituminous coal in Virginia and West Virginia is contemplated in negotiations started recently. The companies involved are said to have assets in excess of \$150,000,000, all of which will be transferred to a single company.

\$76,000,000 Expansion Program of Southern Telephone Systems.

Anticipating a tremendous demand for additional telephone facilities in the South and Southwest this year, three big telephone systems plan expenditures aggregating more than \$76,000,000 for new construction, replacements and increased facilities. The big outlay proposed is of particular significance when it is considered that expenditures in 1925, 1926 and 1927 were at record levels. It clearly reflects the prosperity and progress of this section.

Growth of South's Textile Industry Continues Unabated.

The Morgan-Hamilton Company awarded contract for a big addition to the Warioto Mill, Nashville, Tenn. The Proximity Manufacturing Company, Greensboro, N. C., which is expending large sums in plant improvements, let contracts for a new weave building and necessary machinery. A movement for the establishment of a chain of 8 to 12 cotton mills in Alabama, to be financed

by Caldwell & Co., Nashville, Tenn., and the Alabama Power Company, Birmingham, got under way early in the year. The Piedmont Print Works will begin work soon on a \$1,000,000 bleachery and print plant at Taylors, S. C. The Easton Finishing Company, Easton, Pa., has acquired a site for a \$500,000 bleachery near Hartsville, S. C.

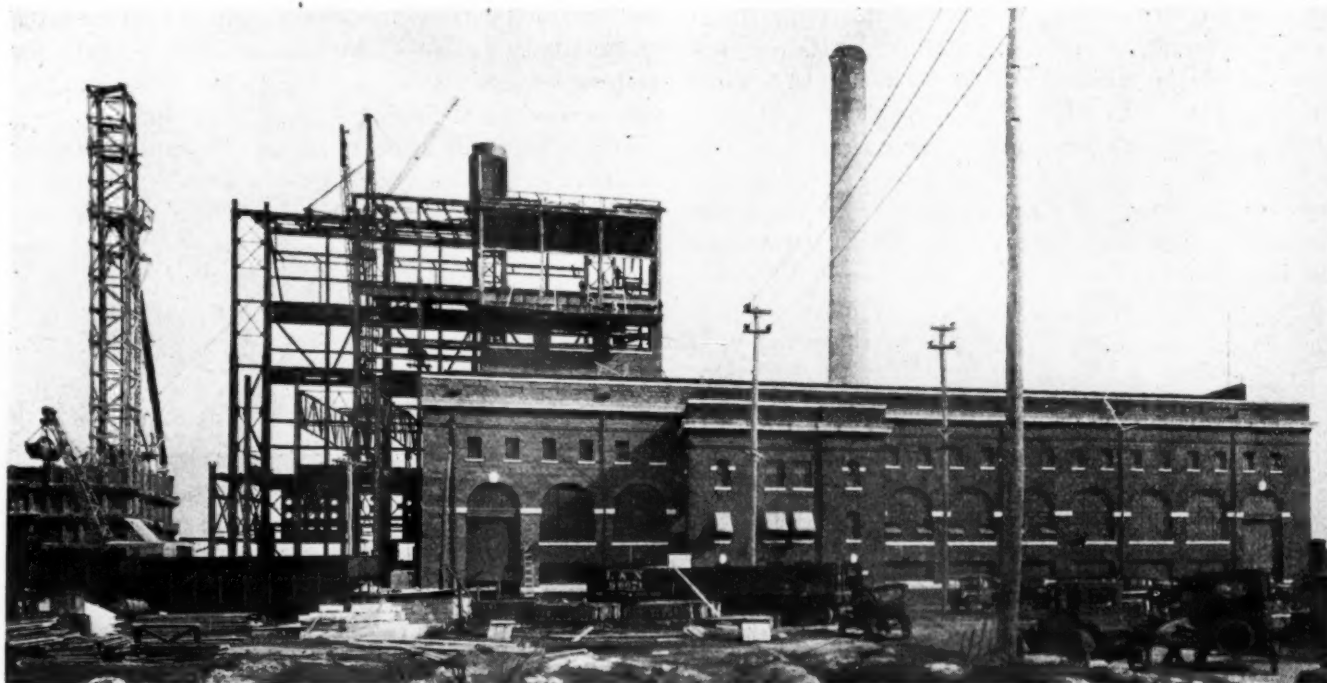
Plans are being prepared for the new plant of the West Knitting Corporation, Syracuse, N. Y., to be erected at Wadesboro, N. C. Work is proceeding on the new Renfrew plant at Travelers Rest, S. C. The Chiquola Manufacturing Company is erecting an addition to its plants at Honea Path, S. C., to house 5000 spindles. The Appleton Manufacturing Company is rushing work on new buildings and improvements to present structures at Anderson, S. C., to house equipment to be moved from New England. The Industrial Department of the Dallas (Texas) Chamber of Commerce announces that contracts will be let within 60 days for a \$900,000, 17,000-spindle mill.

Continued Progress in South's Iron and Steel Industry.

The Gulf States Steel Company, Birmingham, has awarded contracts for improvements to its Alabama City plant involving an initial expenditure of \$2,500,000. The Tennessee Coal, Iron and Railroad Company, Birmingham, will add two stands of finishing rows to its sheet mill, erect a continuous reheating furnace at the structural mill and build additional soaking pits at the blooming mill, in addition to completing important work started last year. The Bethlehem Steel Corporation has under way at its Sparrows Point (Md.) plant improvements to practically all departments.

\$50,000,000 Expenditure for Rayon Plants in the South.

The Celanese Corporation of America has under way improvements costing \$5,000,000 to its plant at Amcelle, near Cumberland, Md., for the manufacture of cellulose acetate and artificial silk. The Industrial Fibre Company, Cleveland, Ohio, is planning



PROGRESS VIEW OF EXTENSION TO JACKSONVILLE MUNICIPAL LIGHT PLANT.

Wide Variety of Building Projects in January Indicates Great Construction Program in 1928.

Contracts were awarded in January for a large number of office buildings, hotels and apartment houses in the South, for churches and schools, for municipal buildings, for county, State and government structures and other important projects for a total of many millions of dollars. That the showing is an impressive one is borne out by the brief facts presented in the following summary. In addition to the developments actually begun, it should be emphasized that architects have plans in preparation for many elaborate buildings on which construction bids will be asked in the immediate future. Moreover, work began in 1927 on many large structures so that there was an extensive carry-over on a great number of projects of major importance. The buildings embrace every type of service, and it is significant that practically every section of the South is represented in recent awards. This shows a generally healthy business condition. The important building operations listed here are only a few of those reported last month in the MANUFACTURERS RECORD. They offer an impressive illustration of what is now going on in the South and Southwest and what is planned for the near future.

Bank and Office Buildings Feature 1928 Program.

The Panhandle and Santa Fe Railway Company plan a 12-story office building at Amarillo, Texas. The United States Fidelity and Guaranty Company, Baltimore, is building an \$800,000 addition. The American Trust and Banking Company, Chattanooga, Tenn., awarded the

000 31-story bank and office building for the Baltimore Trust Company. Plans and specifications will be ready in February for the \$1,500,000 office building to be erected in Winston-Salem, N. C., by the R. J. Reynolds Tobacco Company. The



RECENTLY COMPLETED MISSOURI HOTEL, JEFFERSON CITY.

contract for a \$500,000 bank building. Ernest Nalle, Austin, Texas, started work on a \$500,000 office building. The Calcasieu National Bank, Lake Charles, La., is building a \$500,000 bank and office structure. The Louisville (Ky.) National Bank and Trust Company is having plans prepared for a \$500,000 building. Work will start about July 1 on a \$3,000,-



NEW \$1,100,000 DADE COUNTY SECURITY BUILDING AT MIAMI, FLORIDA.

American National Insurance Company, Galveston, Texas, will soon have plans ready for an 11-story building. Steady progress is being made on the \$1,000,000 Federal Reserve Bank Building, Baltimore. The Hamilton Trust and Savings Bank, Chattanooga, Tenn., plans a \$500,000 building. Jesse H. Jones, Houston, Texas, is erecting a \$4,500,000 35-story bank and office building. The Union Professional Building Corporation will erect a \$500,000 medical arts building in Durham, N. C. The Macon (Ga.) Building Corporation was

organized to erect a \$600,000 medical arts building. The Columbia Medical Building, Inc., Washington, proposes erecting a \$750,000 building for doctors and dentists. Giesecke & Harris, architects, are preparing plans for a 12-story professional building, Austin, Texas.

**Public and Semi-Public
Buildings
Let to Contract.**

A \$650,000 Masonic Temple is proposed for Dallas, Texas. The Knights of Pythias, St. Louis, Mo., will let contracts soon for a \$1,000,000 building. The North Carolina Grand Lodge of Masons plan a \$500,000 temple at Raleigh, N. C.

The Church of the Good Shepherd, Jacksonville, Fla., will award contracts this month for a \$550,000 structure. St. Phillip and James' Catholic Church, Baltimore, awarded the contract for a \$700,000 building.

Doster-Dorthington, Inc., Birmingham, Ala., awarded the contract for \$500,000 store building.

Plans will be finished about May 15 for the 15-story city hall to be erected in Atlanta at a cost of \$1,500,000. Work is proceeding rapidly on the \$4,000,000 Civil Courts Building, in St. Louis, Mo. New buildings are proposed at the Marine Barracks, Quantico, Va., to cost \$2,205,000. Permanent quarters will be erected for officers and enlisted men at Fort Bragg, N. C., at a cost of \$500,000. Contract will soon be let for an administration building for the Department of Agriculture, Washington.

The Memorial Hospital, Cumberland, Md., will award contracts this month for a \$500,000 building. An \$1,800,000 marine hospital is planned by the United States Public Health Service at New Orleans.

The city of Baltimore has undertaken an additional \$10,000,000 school building program, having expended during the past few years more than \$20,000,000 for similar structures. School building contracts aggregating over \$820,000 were awarded by the Fairmont (W. Va.) Board of Education. The Memphis (Tenn.) Board of Education let contracts for the \$500,000 Crockett Technical High School. The School Board, Richmond, Va., let contracts for the \$500,000 East



\$725,000 APARTMENT BUILDING AT LOUISVILLE, KY.

End Junior High School. Tulsa, Okla., proposes a two-year school building program involving a \$1,500,000 expenditure.

**Contracts Let
for New Hotels
in the South.**

The Cisco (Texas) Hotel Company awarded contracts for a \$500,000 8-story building. J. M. Nix, San Antonio, plans a 13-story hotel and garage to cost \$1,800,000. Construction is in progress on the \$6,000,000 Lord Baltimore Hotel, Baltimore. The Wolff Hotel Company, Montgomery, Ala., awarded contracts for a \$500,000 10-story hotel. The Gillet Realty Company, Baltimore, is erecting the \$1,000,000 Warrington Apartments in the Roland Park-Guilford section. Adolph Well, Paducah, Ky., proposes to erect a 200-room hotel. The Hilltop Hotel Company, San Antonio, plans a \$500,000 hotel.

\$52,000,000 in Southern Contracts Awarded.

Contracts awarded in January in the 16 Southern States for all classes of building, industrial and construction projects, had a total valuation of \$52,493,000, as shown by a compilation of the reports published in the Daily Bulletin and in the construction columns of the MANUFACTURERS RECORD. In the preceding month contracts awarded had a valuation of \$60,243,000—a high figure for the last month of the year—and construction on most of those projects is now going forward. Thus, construction projects necessitating the expenditure of more than \$110,000,000, are represented in awards of the last two months. Work started on many big buildings and industrial projects in 1927 that were subsequently carried over for completion this year, and this added to the construction assured by December and January lettings provides a large volume of new construction in the South in the early months of 1928.

From the standpoint of money involved, contracts for roads, paving and bridge work in January hold first place, the total being \$20,108,000, or more than one-third of the awards for the month. Activity is noted in city paving projects. Big sums are also being expended for paving in real estate subdivisions throughout the South.

Dwelling construction, which has constituted a major part of the South's building program in the past five years, continues at high level. Awards last month totaled \$3,770,000,

including only those individual projects involving the expenditure of \$10,000 each and up.

Apartment houses and hotels let to contract last month had a total valuation of \$5,985,000. Contracts for school buildings had an aggregate value of \$4,786,000, and awards for bank and office buildings totaled \$4,633,000. Church building awards last month aggregated \$3,038,500.

Awards for miscellaneous enterprises—including industrial projects, garages, piers, electric power developments and a wide variety of similar enterprises not covered specifically in the other classifications—amounted to \$4,930,000. An illustration of the great amount of industrial and allied building work to be undertaken this year is offered by the tremendous expansion programs announced for 1928 by electric light and power companies throughout the South.

Southern Construction in January, 1928.

	Contracts awarded	Contracts to be awarded
Apartment houses and hotels.....	\$5,985,000	\$7,360,000
Association and fraternal.....	625,000	1,232,000
Bank and office buildings.....	4,633,000	3,515,000
Church buildings.....	3,038,500	5,203,000
City and county projects.....	1,319,500	1,660,000
Dwellings, cost \$10,000 or more.....	3,770,000	4,235,000
Miscellaneous enterprises.....	4,930,000	55,483,000
Roads, paving and bridges.....	20,108,000	38,025,000
School buildings.....	4,786,000	7,889,000
Sewers, drainage and water works...	1,770,000	8,916,000
Store buildings.....	1,628,000	2,279,500
Totals.....	\$52,493,000	\$135,797,500

Industrial Expansion Features Southern Construction.

Continuation of industrial expansion and building activities at high levels is indicated by the publication of 6010 items in the construction news columns of the MANUFACTURERS RECORD during the four weeks of January. These covered every phase of development in the 16 Southern States. The total compares with 5408 items for January, 1927, and averages more than 1500 weekly. In the five weeks of December 7138 items were published, or about 1425 weekly.

The January items included 2837 industrial development notices, compared with 2206 in January, 1927. Building items totaled 1504, compared with 1560 such notices published the first month of 1927. Last month there were 470 announcements concerning the organization of new financial enterprises and the voting and sale of public-improvement bonds, compared with 413 in January, 1927.

The January reports included 689 road, street and paving items. Bridge, culvert and viaduct notices numbered 221. Thus 910 items covering these two closely allied classes of work were published, compared with 718 similar notices for

the same month of the preceding year. Miscellaneous enterprises stand second, with a total of 582, compared with 449 for January, 1927. Last month 353 items covering dwelling construction were published.

Plans Progressing on \$1,500,000 City Hall.

Atlanta, Ga.—Plans for the new 15-story city hall to be erected here at a cost of \$1,500,000 are expected to be ready about May 15. The building will be 15 stories, fireproof, with steel and concrete frame. G. Lloyd Preacher & Co., Inc., of Atlanta are the architects and engineers.

12-Story Professional Building for Austin.

Austin, Texas.—Plans are being prepared by Giesecke & Harris, this city, for a 12-story professional building to be erected here by O. O. Norwood. The structure will be of reinforced concrete, brick and stone with gray granite base, and will be equipped with steam heat, cooling system and three high-speed elevators.

Bids Soon on \$800,000 Charleston Hotel.

Charleston, W. Va.—Plans will be out February 5 and bids will be received about February 18 for the erection of a hotel here for the Community Hotel Company, at a cost of more than \$800,000, including \$150,000 for furnishings and equipment. The building will be 9 stories, 130 by 112.6 feet, concrete, with concrete foundation, terrazzo floors and built-up roof. W. L. Stoddart, New York, is the architect. C. A. Haviland, local architect, will receive construction proposals and W. B. Geary, also of Charleston, equipment proposals.

Municipal Plaza Taking Shape in St. Louis.

St. Louis, Mo., January 28—[Special.]—A municipal plaza extending east and west for three blocks and north and south for one block is taking shape here. It will be bordered by the new \$4,000,000 civic courts building, for which the cornerstone will be laid in February; \$5,000,000 municipal auditorium, plans for which have been announced; proposed \$1,000,000 Soldiers' Memorial, and two other structures. Four other public buildings are in the vicinity. E. R. Kinsey, director of the Board of Public Service, estimates the cost of the land at \$6,000,000.

\$400,000 Law Building Completed at Charlotte.

A \$400,000 building has been completed at Charlotte, N. C., for the Charlotte Law Building, Inc., Plummer Stewart, president, a company composed exclusively of lawyers. The structure is eight stories, fireproof, of steel frame with reinforced concrete and hollow tile floors. Columns and footings have been designed to carry four additional stories. A granite base course, veneered with Indiana limestone, was carried to the third floor, with brick above. The building is occupied by lawyers and practically all space has been rented. Louis H. Asbury is the architect and the Goode Construction Company, general contractor, both of Charlotte. Other contracts were awarded as follows:

Elevators—Otis Elevator Company, New York.
Heating and Plumbing—Toomey Plumbing and Heating Company, Charlotte.
Heating Plant—Furnished by Charlotte branch of Hajoca Corporation, Philadelphia.
Limestone—Ingalls Stone Company, Bedford, Ind.
Marble, Tile and Terrazzo—McDaniel-Federal Company, Charlotte.
Millwork—Charlotte Woodworking and Manufacturing Company.
Steel—Dietrich Brothers, Baltimore, Md.
Steel Erection—J. W. Markham, Greensboro, N. C.
Wiring—Woodside Electric Company, Charlotte.

Industrial Developments—		Jan., 1928
Airplane Plants, Stations, etc.	34	
Bridges, Culverts, Viaducts	221	
Canning Plants	8	
Clayworking Plants	11	
Coal Mines and Coke Ovens	13	
Concrete and Cement Plants	5	
Cotton Compresses and Gins	11	
Cottonseed Oil	4	
Drainage, Dredging and Irrigation	24	
Electric Light and Power	117	
Fertilizer Plants	2	
Flour, Feed and Meal Mills	13	
Foundry and Machine Plants	14	
Gas and Oil Developments	134	
Ice and Cold Storage	43	
Iron and Steel Plants	7	
Land Developments	269	
Lumber Enterprises	36	
Metal-working Plants	5	
Mining	19	
Miscellaneous Construction	34	
Miscellaneous Enterprises	582	
Motorbus Lines and Terminals	23	
Motor Cars, Garages, Filling Stations	162	
Railway and Street Railways	3	
Railway Shops and Terminals	5	
Road and Street Construction	689	
Sewer Construction	90	
Shipbuilding Plants	...	
Telephone Systems	33	
Textile Mills	70	
Water Works	130	
Woodworking Plants	26	
	2837	
Building—		
Association and Fraternal	42	
Bank and Office	83	
Churches	151	
City and County	90	
Dwellings	353	
Government and State	30	
Hospitals, Sanitariums, etc.	59	
Hotels	154	
Miscellaneous	57	
Railway Stations, Sheds, etc.	10	
Schools	241	
Stores	174	
Theaters	28	
Warehouses	32	
	1504	
Financial—		
Bond Issues Proposed	271	
Bond Issues Sold	94	
Building and Loan Associations	10	
New Financial Corporations	95	
	470	
Want Section	949	
TOTAL	5760	
Fire Damage	250	
	6010	

Decrease in Mine Output of Copper, Lead and Zinc in 1927.

Production by States of the recoverable copper, lead and zinc content of the mine output of the country have been compiled by the Bureau of Mines. The smelter production of copper from domestic ores in 1927 was 848,000 short tons and the refinery production of new copper from domestic and foreign sources was 1,159,000 tons. The output of primary refined lead from domestic sources in 1927 was 676,000 short tons and from domestic and foreign sources 807,000 tons. The smelter output of primary zinc from domestic ores in 1927 was 575,000 short tons and from domestic and foreign ores, 588,000 tons. All figures shown in the following résumé are of estimated recoverable metal output of the mines and should not be confused with figures of smelter and refinery production.

The output of recoverable copper by the mines in the United States in 1927 was about 834,100 short tons, as compared with an output of 862,605 tons in 1926, a decrease of about 3 per cent. There was no uniformity in trend of production in the important copper-producing States, in some States increases were made and in others decreases.

The recoverable lead contained in ore mined in the United States in 1927 was about 664,300 short tons, as compared with an output of 682,381 tons in 1926, a decrease of nearly 3 per cent. The output of soft lead by mines of the Mississippi Valley and a small output from the Eastern States amounted to about 288,000 tons, and that of argentiferous lead by mines of the Western States amounted to about 376,000 tons. Corresponding figures for 1926 were 310,706 tons from the Mississippi Valley and the Eastern States, and 370,897 tons from the Western States. The largest output came from the Southeastern Missouri district and amounted to about 202,300 tons, as compared with 203,062 tons in 1926.

The recoverable zinc contained in ore mined in the United States in 1927 was about 715,990 tons, as compared with 774,564 tons in 1926, a decrease of nearly 8 per cent. The output of the Eastern States was about 117,200 tons (83 per cent from New Jersey), of the Central States about 380,200 tons and of the Western States about 218,590 tons. These figures compare with 103,598 tons for the Eastern States in 1926, 456,194 tons for the Central States and 214,772 tons for the Western States. The most important increase in production in 1927 was made in New Jersey where an increase of 21 per cent was made. Production in the Joplin district decreased from 423,800 tons in 1926 to 341,900 tons in 1927, approximately 19 per cent. In the Western States as a whole pro-

MINE PRODUCTION OF COPPER, LEAD AND ZINC IN THE UNITED STATES IN 1926 AND 1927, IN TERMS OF THE RECOVERED AND RECOVERABLE METAL CONTENT.

District	Copper, short tons		Lead, short tons		Zinc, short tons	
	1926	1927	1926	1927	1926	1927
Eastern States...	10,784	12,810	3,250	2,100	103,598	117,200
Tri-State District..	.....	.....	102,117	81,800	423,800	341,900
Southeastern						
Missouri	539	.....	203,062	202,300	1,092	3,800
Upper Mississippi Valley .....	.....	.....	1,819	1,400	29,377	33,100
Michigan	87,691	88,240	.....	.....	.....	.....
Other .....	.....	.....	458	400	1,925	1,400
Central States..	88,230	88,240	307,456	285,900	456,194	380,200
Arizona	361,648	348,100	11,629	9,910	6,473	990
California	16,733	13,400	4,047	1,270	10,217	4,120
Colorado	1,675	2,900	33,000	33,780	32,500	37,440
Idaho	669	900	136,490	146,800	26,307	25,300
Montana	127,686	112,300	21,153	18,250	73,701	71,700
Nevada	50,914	58,700	11,184	8,410	5,409	3,630
New Mexico	40,821	38,500	3,480	7,750	12,053	26,800
Oregon	148	250	6	3	.....	.....
Texas .....	.....	.....	.....	250	.....	.....
Utah	128,732	129,200	147,635	148,950	47,590	47,900
Washington	676	800	2,273	610	522	710
Western States..	729,702	705,050	370,897	375,983	214,772	218,590
Alaska	33,889	28,000	778	300	.....	.....
Total	862,605	834,100	682,381	664,283	774,564	715,990

duction was a little higher, due to large increases in Colorado and New Mexico. The other Western States, with the exception of Utah and Washington where production was relatively unchanged, showed decreases in production in 1927.

Plans for 11-Story Galveston Building.

Galveston, Texas.—Plans will be ready about March 1 for an 11-story building to be erected here by the American National Insurance Company, Shearn Moody, president. It will be of reinforced concrete, brick, stone and structural steel, 43 by 120 by 84 feet, L-shaped, the exterior of two sides to be of cream-colored brick. Three elevators will be installed. Andrew Frazer, Galveston, is the architect.

To Begin Work on \$300,000 Masonic Temple.

Fort Smith, Ark.—Excavation for a \$300,000 temple to be erected here by the Masonic Home Association, Inc., Robert L. Secrest, secretary, is expected to be started soon and general contract let before this work has been completed. The building will be two stories and basement, 177 by 120 feet, of Indiana limestone. An auditorium will seat 1200. George R. Mann, Wagner & King, Little Rock, are the architects and Haralson & Nelson, Fort Smith, associate architects.

Southern Air Route Is Started.

Regular airplane service between Pinehurst, N. C., and New York city was inaugurated last Monday in a non-stop flight by Lloyd C. Yost and passenger. The flight was made to the northward, in a Fairchild cabin monoplane. Leaving Pinehurst at 10.45 in the morning, the travelers reached New York at 3.45 in the afternoon, and after refueling his machine Yost flew to Hadley Field, N. J. He made the return flight to Pinehurst on the following day.

Amusement Park on the Chesapeake.

Love Point, Md.—Work will start soon on an amusement park here for the Dreamland Amusement Company, C. W. Elrod, general manager, Love Point. Construction will include six buildings, 12 by 12 feet; ten, 14 by 14 feet; circular building 90 feet in diameter, 54 additional bath houses, 1000 feet of boardwalk and 4500 feet of electric court. New equipment will include coaster, Ferris wheel, airplane swings, toboggan slide, Custer car ride, merry-go-round, tumble bug, 1001 troubles, mysterious house, shooting gallery, photograph gallery, high striker, pony track, games, goat track, monkey island, boats, electric fountain and other facilities. Edwin Browne, Baltimore, is the architect. Electricity will be generated by a Fairbanks-Morse unit with oil burner.

May Invite New England Industrialists.

Austin, Texas, January 28—[Special.]—It is planned by John W. Carpenter of Dallas, president of the Texas Power and Light Company, to recommend to the Texas Industrial Committee, of which he is chairman, that it invite a large delegation of textile manufacturers of New England to Texas this spring and show them what the State has to offer in advantages for the establishment of cotton mills here. He proposes special trains from Boston and New York, and that the textile men be given a free tour of every part of the State.

"Governor Dan Moody has taken official cognizance of Texas textile opportunities by creating the Texas Industrial Committee," said Mr. Carpenter, "and if it is decided to bring trainloads of Eastern mill representatives here the project will take on a State-wide aspect. Nothing, I am sure, would do more for the development of this great empire of the Southwest than thus to encourage the leaders of the textile industry to convince themselves."

"Travel Industry the Greatest Neglected Asset in the United States."

AN APPEAL TO AMERICAN BANKERS TO DEVELOP AMERICAN TRAVEL.

Tourist and Publicity Bureau.

Denver, Colorado.

Editor Manufacturers Record:

I read with a great deal of interest the front-page editorial in the MANUFACTURERS RECORD of November 24. May I commend you for the position that you are taking relative to the development of the Travel industry in America and the prominence you are giving to it in the MANUFACTURERS RECORD?

On May 31, 1927, I sent the following letter to Mr. Carrol F. Sweet, president, Association of American Bank Travel Bureaus:

"Answering your wire relative to Association of American Bank Travel Bureaus, may I repeat what I said to you in Grand Rapids—that I believe your organization has the possibility of becoming one of the most powerful factors in the development of travel in America?

"In 1915 about \$300,000 was spent by chambers of commerce or kindred organizations in developing travel in the United States and Canada. Today over \$20,000,000 is being spent by organizations not organized for profit and the railroads have increased their appropriations from hundreds of thousands to millions. Hotels, sightseeing companies, etc., have all been stimulated by community activities and are using them as a clearing house in travel developments.

"The travel industry, to me, is the greatest neglected asset in the United States.

"You asked for suggestions and I know you will take what I write as it is intended—constructive criticism.

"First—Your own members need to be more thoroughly sold on your organization and the value of the travel dollar.

"Second—A vigorous campaign to sell your plan to the banks in America that are eligible to membership.

"Third—The development of travel in America is as important as the development of travel in foreign countries.

"In selling your own members I believe that it will take more than letters and bulletins. The heads of the banks should be called on by a representative of the A. A. B. T. B., sell the value of the association and work out the details and establish a full-fledged working bureau in charge of the proper party that would make an asset of it.

"Would also suggest serious consideration be given to the small city banker, as a very large proportion of our travel dollars comes from small towns and the rural districts.

"I realize that a traveler going to Europe is in one way a greater asset than an American traveler, as it takes longer for the coupons to reach the bank for redemption, which naturally leaves the money on deposit over a longer period, and the amount spent is larger by the individual traveler.

"On the other hand, the travel in America by Americans is so much greater in volume than foreign travel that I believe it is well worth developing.

"The tourist of today is the citizen of tomorrow and, with the exception of the congested East, it is our business to populate. With population comes the zenith of industry, manufacturing and the development of greater areas to distribute our manufactured products.

"Every American that visits a foreign country spends American dollars that filter through the channels of industry in the country he visits; about 5 per cent goes through American industrial channels, which consists of a part paid for transportation.

"One hundred per cent of the American dollar spent in

America by travelers, even to a smooth dime spent in the most remote part of Alaska, eventually finds its way to Wall Street. They ride in American-made trains and automobiles, eat American-grown foods, sleep in American-made beds, wear American-made clothes, patronize American shopmen and buy American-manufactured products.

"To illustrate; last year Colorado had 750,000 tourists, who came from eight to ten thousand large cities and small communities in the United States, each one of whom went into their local bank and came out with anywhere from \$100 to \$1000. Some bought A. B. A. checks; the others put a rubber band around the roll and either by rail or by automobile came to Colorado, peeled off a five here and a ten-spot there until they were broke. They bought our scenery and climate and left that all here, besides \$49,500,000 in new money for our allied business interests to play with, and we are still in our infancy in the development of travel.

"Every State that a traveler passes through has an opportunity to get its share of the travel dollar.

"Relative to compensation to your members from the railroads—that, as well as other compensation, will come as soon as your organization has developed your plans on a scale large enough to secure their co-operation.

"Through the media of national, State and local publicity, sell the idea to the American traveling public that your organization is of real value to them and that you are encouraging travel in America as well as foreign countries, and your organization will be the powerful factor that you desire, also financially remunerative to both your members and the traveling public.

"I have read the bulletins with a great deal of interest and they contain a number of excellent suggestions. Personally, I feel that your organization is on the right track and I predict a more rapid growth than you anticipate."

At the convention of the American Travel Development Association which was held in Gulfport, Miss., November 3, 4 and 5, a telegram was sent to the Association of American Bank Travel Bureaus, who were holding a meeting in Chicago, requesting them to include the development of travel in America by Americans in their travel bureaus. This was done and they are holding a meeting in Chicago in January to develop plans along this line.

I have at all times found the Association of American Bank Travel Bureaus ready and willing to co-operate in selling travel in the United States, and am confident that their difficulties will be adjusted in the very near future and that the railroads, as well as hotels, sightseeing companies, etc., will grant them the recognition that they deserve.

Relative to the American railroads, I believe you will find by a careful check of the newspapers and magazines that the railroads in the United States are using twice as much paid space for advertising the scenic and historic environs of the United States as the European steamship lines, and, as I said in my letter to Mr. Sweet, that where the American railroads were spending hundreds of thousands of dollars they are now spending millions which includes not only the national advertising, but booklets, literature, travel bureaus and large staffs of solicitors and bending every effort to create and initiate travel in America by Americans.

The railroads for many years played a lone hand in the development of travel. Prior to 1916 there were only three or four communities in the United States carrying on a campaign to create tourist travel, and I believe that if it were not for the intensive campaign of the railroads during the past 12 years travel in America would be about the same as it was in 1912.

The automobile industry as a whole, who, in my judgment, are tremendous beneficiaries in the travel industry,

have done very little as compared with the railroads in the creation and initiation of travel in America. Some day they will reach the peak of automobile manufacturing, and when our garages are full of stored cars I believe they will realize the advantage of intelligent, well-directed advertising campaigns, selling the joys and pleasures of recreation in traveling by automobile, and that their copy will carry stories illustrated with photographs of the scenic and historic environs in America that can be reached by automobile. The amount of money that they are spending in creating travel is extremely negligible as compared with the railroads.

I am enclosing a small map of the world, which is a readjustment of Mercator's projection, and now that the tide of commerce has definitely left the Atlantic and returned to the Pacific Ocean there may be a story in it that will be of interest to you.

In your issue of December 22 I note what Mr. Guy M. Walker has to say relative to the origin of the expression "See America First." This distinction is also claimed by Harrison Fisher of Salt Lake City. I believe, however, it was after 1901 that Mr. Fisher made this suggestion at a meeting of the Hotel Men's Association.

May I again express, as president of the American Travel Development Association, my sincere appreciation for the interest you are taking in travel development in the United States, and I feel confident that I echo the sentiments of every member of our organization.

HARRY N. BURHANS, President,
American Travel Development Association.

\$4,000,000 Laundry Consolidation in Atlanta.

Atlanta, Ga.—Following the consolidation of 10 laundries in this city into a new organization to be known as the Atlanta Laundries, Inc., and involving about \$4,000,000, the new company has offered through the Citizens and Southern Company and the Trust Company of Georgia, both of Atlanta; Canal Bank and Trust Company, New Orleans, and Caldwell & Co., Nashville, \$1,500,000 first lien 6½ per cent sinking fund gold bonds. Proceeds from this issue and junior securities will be used for the acquisition of the properties and for working capital. George H. Fauss, president of the Capital City laundry, becomes president of the new company and B. C. McClelland, New Orleans, chairman of the board.

\$465,000 Barracks to Be Let to Contract.

Fort Benning, Ga.—Bids will be received until February 27 by the Constructing Quartermaster, Lieut. W. M. Allison, for building sections F and G Cuartel Barracks, including utilities and tunnel, for which \$465,000 is available. Section F will be 3 and 4 stories and basement, and section G, 4 stories and basement, 284 by 50 feet, of reinforced concrete flat slab and beam, brick walls, partitions and arches, Indiana limestone trim, tile and composition roof, with steel lockers, steam heat and kalameln doors.

Meeting of Maryland Utilities Association.

The annual meeting of the Maryland Utilities Association, H. B. Potter, president, Baltimore, will be held on March 23 at the Emerson Hotel, Baltimore. A program is now being prepared. In addition to Mr. Potter, other officers of the association include H. T. Connolly, G. S. Williams, Charles M. Cohn, all of Baltimore; H. A. Brooks and A. G. Neal, Washington, D. C.; J. A. Mayers, Cumberland; G. W. Woodford, Cambridge; R. Paul Smith, Hagerstown, and F. N. Lawton, Salisbury.

Prohibition Enforcement in 1926-1927.

Interesting figures on enforcement of the National Prohibition law are disclosed in the annual report of J. M. Doran, Commissioner of Prohibition, for the fiscal year of July 1, 1926, to June 30, 1927, inclusive. The enforcement operations are summarized in the following paragraph:

"Prohibition agents made 64,986 arrests during the year ended June 30, 1927, and seized 7137 automobiles, valued at \$3,529,296.70, and 353 boats, valued at \$316,323. As a result of the work of such agents, 51,945 prohibition cases against individuals were handled in Federal courts and 36,546 persons were convicted, of which number 11,818 were given jail sentences. The courts imposed sentences aggregating 4477 years and fines amounting to \$5,775,225.48."

From these figures, it appears that in individual cases the number of convictions was 70.3 per cent of the total handled in the courts, and that of the 36,546 persons convicted 32 per cent went to jail. For these 11,818 convicted offenders, the jail sentence averaged 138 days each. As many sent to jail were undoubtedly fined also, the average fine imposed, without incarceration also, cannot well be computed.

Incidentally, it may be said that the figures for the past fiscal year are the more difficult to interpret in accurate fashion because of the change in the national enforcement agency and consequent change in policies and methods. From July 1, 1926, to March 31, 1927, the National Enforcement law was administered by the Treasury Department through the Bureau of Industrial Revenue, after which the duties and responsibilities of adequate enforcement were transferred to a newly created agency, known as the Bureau of Prohibition. Thus, the report covers the operations of the Prohibition Unit for nine months and of the Bureau of Prohibition for three months. Without expressed criticism of the work of the Prohibition Unit, more than one observer anticipates far greater achievement under the Bureau of Prohibition than under any agency in which practical politics could be practiced by men of influence in a very wide circle.

In contrast with assertions that Prohibition enforcement has cost the country \$11,700,000 a year, the figures show collections of \$5,160,000, which were turned into the United States Treasury, thus reducing the net cost to \$6,500,000. Of the \$5,162,000.72 collected, \$4,143,040.02 was from fines and penalties collected through Federal courts and \$1,018,969.71 from collections under tax and tax-penalty provisions of the Enforcement Act.

Under the head of "Report of Court Proceedings," the report shows that 28,537 cases had been started since July 1, 1926, the figures continuing: Pending, July 1, 1926, 20,462; commenced, 39,523; terminated, 39,812; convictions, 30,115; acquitted, 884; nol pros or discharged, 4913; quashed or dismissed, 3900; pleas of guilty, 27,955; trials by jury, 3044; cases on hand, 20,173; percentage of convictions, 70.3; average fine, \$158; average sentence, 44.1 days.

In the enforcement of the Narcotic law in the fiscal year ending June 30, 1927, there were 4458 convictions, the aggregate sentences running to 7088 years and 10 months; total amount of fines, \$175,127.90; cases compromised, 2083; total amount accepted under compromises, \$104,166.64.

Convention of Southern Pine Association.

The annual meeting of the Southern Pine Association, H. C. Berckes, secretary-manager, New Orleans, La., will be held at the Roosevelt Hotel, New Orleans, on March 27 and 28. The board of directors and various committees will meet March 26, on which date there will also be a general session of Southern pine manufacturers, at which various associations of mill managers in the South will be invited to sit.

For Federal Farm Demonstration Colonies in South.

ASSOCIATED COMMITTEES FROM TEN SOUTHERN STATES HOLD CONFERENCE AND OUTLINE A PLAN.

[Special Correspondence Manufacturers Record.]

Washington, January 27.

Neither reclamation, in the usual sense of the word, nor any increase in the quantity of farm products, but solely the improvement of the conditions of life on Southern farms by demonstrating modern methods of agriculture in selected farm colonies, is the object of the effort being made by groups in 10 of the States of the South to secure Federal farm demonstration colonies within their borders.

Delegations of business leaders from the 10 Southeastern States arrived in Washington on January 24 to begin what is expected to be the final conference of its kind, prior to the enactment of legislation enabling the establishment of the desired colonies. The conference was attended by Congressmen and Senators from the States concerned, all of whom, without exception, expressed approval of the plan and pledged their unqualified support. Among them were some of the ablest and most influential members of both houses.

A perfect unanimity of thought among all present, a surprising intensity of feeling and strength of purpose were the high lights of the meeting. The speakers declared Southern agriculture must be reorganized. While industry has undergone extraordinary reorganization, agriculture has not. Small individual farmers still buy individually in a protected market, produce without any of the advantages of mass production, and sell in the same old individualistic, cut-throat fashion. Neither buying, producing nor selling is carried out in a business-like fashion. Many farms are being deserted, while the most energetic and ambitious of the young people growing up on the farms are leaving them to work in cities. But the farm, it was held, is not merely a great potential market for manufactured products. It is also the greatest potential training school for citizenship that we have or can have. Its value to the country, not merely as a larder but as a training school for patriotic citizens, for virile manhood and womanhood and as a place of the richest and most delightful home and social life must be restored, and farm life raised again to the high plane it once occupied in the nation and can occupy again if farming adopts the methods of modern business.

So far, so good; but many speakers and writers have gone as far, without pointing out any practical steps by which this desirable consummation may be secured. The colonization conference has a very definite and clear cut plan. It proposes that the Federal Government, acting through the Bureau of Reclamation of the Interior Department, establish in the 10 States of the Southeast—and in any other States in the Union that desire them—farm demonstration colonies. The plan for a single colony would be, briefly, as follows: The Government would buy a suitable tract of from 25,000 to 50,000 acres of farm land, so situated as to be accessible and yet so undeveloped as to be had at a low price. The suitability of the soil, location, water supplies and other features would be passed upon by a board of experts. The land having been bought, the Government would then proceed to survey it and cut it up into farms of moderate size, according to natural boundaries, water supply, woodlands and other features; draw up standard plans for houses and barns and build a few; and then, invite purchasers.

But the farms would not be sold indiscriminately to all

applicants. Buyers would be hand-picked with the same care that a business corporation exercises in the selection of its managers and department heads. Every purchaser must be an experienced farmer who has demonstrated his energy, thrift, ability and integrity, and who can pay his way at the start. Liberal, long-term credit, with serial payments, will be arranged for such men.

But many a colonization scheme has gone on the rocks because it has been carried this far and no farther. When the farms are sold, the real work will be just beginning. Certain crops, best suited to the climate, soil and accessible markets, must be selected as standard. Expert instruction in the adaptation of cultivation to the particular climate and soil will be given to all settlers. Purchasing of fertilizers, seeds and equipment and of building supplies for the homes, will be carried out co-operatively, and every farmer given the benefit of the advantage of large-scale, expertly directed buying. A closely organized group of 200 farmers could afford to pay big prices for fine bulls to serve the cows of the whole group, whereas no one farmer in the group could afford such an item.

In marketing their products, every farmer in these colonies, it was said, will have the advantage not only of a well-organized and expert marketing organization, but because all his neighbors plant the same kind of potatoes, raise the same kind of swine, cattle and poultry, he will have a standard product to sell and will, therefore, command the top price in a ready market.

The benefit to the State of each of these colonies, if the benefit stopped at the border of the colony, would be negligible. Farmers have been told what to do, but not all of them do it. The great idea of this colonization plan is to show them. It is confidently hoped that with a thriving example before them of the advantages of co-operative buying and selling, and of co-operative ownership of those things the individual cannot hope to own, the modern method will spread gradually all over the States in which the colonies are located, and Southern agriculture will be elevated to a higher plane of prosperity and a higher standard of living.

Secretary of the Interior Hubert Work was one of the speakers who strongly endorsed the plan, saying that its operation would greatly elevate the standard of living on farms. Commissioner of Reclamation Elwood Meade, veteran organizer of farm colonies in many countries of the world, pointed out that the Government is not being asked to give or to spend anything but merely to lend in the form of a revolving fund, the amount now asked for being \$10,000,000. All of this, he explained, would be invested in farm land and improvements under conditions that would insure its repayment.

Among the delegates were: John Kerr Branch, Richmond, Va.; G. P. Loyall, Norfolk, Va.; John L. Cobb, Wilmington, N. C.; Nelson MacRae, Wilmington, N. C.; Hugh MacRae, Wilmington, N. C.; Major Wade H. Phillips, Raleigh, N. C.; Hon. Thos. P. Stoney, Charleston, S. C.; R. S. McElwee, Charleston, S. C.; R. Goodwyn Rhett, Charleston, S. C.; R. S. Rogers, Washington, D. C.; Rutledge Smith, Nashville, Tenn.; W. F. Coachman, Jacksonville, Fla.; B. G. Lewis, Green Cove Springs, Fla.; A. H. Stone, Dunleith, Miss.; L. J. Folse, Jackson, Miss.; Dr. H. M. Payne, American Mining Congress, Washington, D. C.; Ben Stevens, Richton, Miss.; B. E. Eaton, Gulfport, Miss.; T. Mitchell Robinson, Jackson, Miss.

The 10 States represented at the conference were: Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Alabama, Georgia, Florida, Mississippi and Louisiana.

To Call Conference in Interest of Cotton Acreage Reduction.

New Orleans, La., January 30—[Special.]—A conference to develop a movement for reducing the 1928 cotton acreage is to be called not later than February 15, according to information received on the New Orleans Cotton Exchange.

The information is to the effect that Governor Dan Moody of Texas is wiring governors of other cotton States to give this matter serious thought. It is the answer to the New York campaign to break the price of cotton on claims that another big acreage will be put in this year.

A group of cotton men of New Orleans wired Governor Moody their support of his movement. "We believe it is the sentiment of many of our membership that cotton acreage must be regulated until such time as the machinery is set up to take care of burdensome surpluses of cotton. Therefore, we recommend no increase in acreage if the South is to realize a fair price for its cotton crop," the wire says.

It is proposed that the farmers be educated through field agents of the department of agriculture, State and national and through bankers' associations to the folly of over-production.

The following cotton brokers signed the telegram: Edward S. Butler, E. J. Glenny, T. J. Walsh, C. Lee McMillan, G. W. Clay, A. M. West, Russell Clark, W. B. Keiffer, Sylvan Newburger, Frank B. Hayne, Fontaine Martin, Well & Gatling, Arthur W. Simpson.

Unique Cotton Marketing Plan.

Bonham, Texas, January 28—[Special.]—A unique plan for marketing cotton was adopted by the Farm Labor Union of America at its annual national convention just held here. It is proposed to divide the cotton-growing States into county units, each county to have a cotton salesman who also shall be a classer of the staple. The classer shall be obligated to gather information in every market that can furnish it to him, on every phase of business, supply, demand, crop conditions and the best markets or inducements for cotton, and be able at all times to present the facts so as to help the union members decide whether it would be profitable to have their cotton sold at that time. Only cotton of tenant farmers shall be handled and they must be members of the Farm Labor Union. The landlord is not eligible to membership in the Union and he may sell his cotton only through his tenant farmer, provided the latter is a member of the Union.

\$3,500,000 Company to Barge Coal on Mississippi River.

St. Louis, Mo.—A company capitalized at \$3,500,000 has been organized by W. L. Harding of Des Moines, Iowa, and associates to barge coal and iron between St. Paul and St. Louis on the Mississippi River. Mr. Harding, former Governor of Iowa and president of the Great Lakes-St. Lawrence Waterway Association, is president of the new company, whose other officers include E. K. Beaty, Indianapolis, Ind., vice-president; E. B. Downell, Indianapolis, secretary and treasurer, and E. J. Hartenbelt, Chicago, general manager.

To Study Arkansas Business and Tax Laws.

An honorary commission of seven members, charged with the duty of making a special study of the business laws and taxation system of Arkansas, has been named by Governor John E. Martineau, as follows: George Vaughan, chairman, Little Rock, former president of National Tax Association; Dr. J. S. Waterman, secretary, Fayetteville, dean of college of law, University of Arkansas; R. E. L. Wilson, Wilson,

planter and capitalist; H. C. Couch, Pine Bluff, industrialist and utility operator; J. H. Meek, Camden, banker and oil producer, former county judge; State Senator Roy Milum, Harrison, merchant, teacher; O. L. Bodenhamer, El Dorado, realtor, president, Arkansas Real Estate Association. The personnel represents various geographical sections of the State and different business and professional interests.

The purpose of the commission is, first, to study existing conditions; second, to hold a series of public meetings, in different localities, at which the citizenship at large may conveniently be heard, and, third, to issue a public report. The report will set forth the findings of the commission and such recommendations as may be deemed worthy of submission to the next General Assembly, January, 1929.

"Questionnaire No. 1" has been sent to a large number of people, requesting the personal reaction of each recipient.

Citrus Chain Store System Planned.

By RAY A. FRAME, Secretary, Board of Trade, Howey, Fla.

New factories in Florida are planned soon to produce pure citrus fruit juices preserved without the aid of preservatives of any kind, and so to open a new field for the marketing of the citrus fruit crop. This industry, it is estimated, may increase by half the demand for citrus fruits, and also great advances have been made in the canning of the grapefruit, so that it may be distributed without seasonal interruption.

This line of progress in Florida has been due largely to Dr. Ross and Dr. Inman and finally W. J. Howey. Dr. Ross discovered Florida's real citrus lands in the hills along the ridge section, and Dr. Inman worked with him. Mr. Howey studied under them and solved the marketing problem through standardization plus quality.

Long study convinced Mr. Howey that marketing is practiced best by direct selling through a chain of stores and he now is opening about eight a week and will continue to open more as the groves produce more fruit. He has about 12,000 acres bearing, and when his project is completed he will have 60,000 acres in oranges and grapefruit. At normal production that acreage will produce 30,000,000 boxes, about twice the amount produced in the State this season. So far this season he has sold fruit at about \$3 per box, net, on the tree, and no Howey fruit has been auctioned off. Mr. Howey believes the auction market must go. When this development is completed it is expected to produce enough fruit to total \$300,000,000 in retail sales, placing the retail price at \$10 per box.

Under the old plan of auctioning the fruit, it would be impossible to guarantee such prices, but Mr. Howey is protecting product and profit from the seed to the tree-ripened fruit.

\$435,000 Club Development in Florida.

Valparaiso, Fla.—Approximately \$435,000 will be expended by the Valparaiso Corporation, George L. Dick, president, for the development of the El Quistador Club project here, to include an 18-hole golf course on which work has started, 150-room hotel-clubhouse, hunting and fishing lodges, docks and landing piers, launch and fishing boats and artesian wells. Zimmerman, Saxe & Zimmerman are the architects, the Thompson-Starrett Company, general contractors, and Victor F. Michaelson, landscape architect, all of Chicago. The club owns 1000 acres and will develop 200 acres now.

Birmingham Will Sell \$350,000 Bonds.

Birmingham, Ala.—The City Commission will sell about February 14 an issue of \$350,000 of public improvement bonds, for which an ordinance is now being prepared. The issue will be 10-year serial bonds dated March 1, bids to be asked at interest rates, ranging from 4 to 4½ per cent.

The Progress of Cattle Tick Eradication.

By CLEMENT S. UCKER.

Back in 1923 a movement to rid the Southern States of the splenetic cattle fever tick scourage, more commonly known as the Texas fever cattle tick, had begun to gain a solid footing in all the infested areas of the Southern States, with the exception of Louisiana, Mississippi and possibly Florida. Since 1923 more than 200 counties have been declared by the United States Department of Agriculture to be free of the tick, and the quarantine in those areas has been lifted.

In 1923 dipping vats were being dynamited in Mississippi by those opposed to the program of eliminating the Texas fever cattle tick and the factions in that State and Louisiana favoring and opposing the methods necessary to eliminate this cattle pest have waged a long and bitter fight. But farsighted and public-spirited men of those States will eventually put tick eradication over. Generally speaking, the people of the South were quick to realize the far-reaching economic effects of the Texas fever cattle tick scourage, once it was understood.

It should be borne in mind that the tick in itself is not harmless, but punctures the skin of the animal and enters the blood stream to suck blood and nourishment. This parasite injects into the blood a micro-organism from its own intestines, and that micro-organism does the damage. No other parasite carries this micro-organism; no other kinds of ticks carry it, and this particular specie of tick will not mature upon the blood of any other than a bovine animal, and occasionally on horses and mules.

So, the question arose as to how to get rid of the cattle tick. A study of its life cycle indicated that the female is capable of producing anywhere from 3000 to 5000 eggs, which hatch in from 13 to 6 weeks. The young await an opportunity for attachment to a passing cow and if no bovine appears they will live as long as five and a half months under favorable conditions on air and moisture, but do not increase in size. At the end of that time they will die from starvation. If a bovine animal moves along, grazing, they quickly transfer themselves and puncture the skin and gain access to the life stream, and in the period of possibly 20 days, all conditions being favorable, they have reached their maturity.

It should be borne in mind that the Federal quarantine line ran through the "Border States," where there was a fairly well-developed farm life on farms that were fenced, so the first efforts at tick eradication were made beginning at the quarantine line, and running southward. It was comparatively easy to take a census of all the cattle on the individual farms and to place these cattle in one field and keep them there for five and a half months. During that period the ticks starved on every other field on the farm and at the end of that time these cattle were caught up and given a swabbing of crude oil, which had the effect of closing the breathing orifice of the tick and suffocating it. In other words, all the ticks that were on the backs of the animals were smothered, suffocated. The cattle were then placed on a "clean" pasture, and the old pasture was allowed to stand idle for five and a half months to six months, during which time the ticks were starved.

This process cleared out the tick very rapidly until its onward progress struck what is known as the Coastal Plain, where the area of large ownerships of timbered or cut-over lands, particularly the lowlands of the Carolinas, Southern Georgia, Florida, Southern Alabama, Mississippi and Louisiana, was reached. There the cattleman was engaged in raising tick-infested, inbred, undersized, half-fed cattle on another

fellow's land and neither the landowner nor cattleman worried.

It was obvious that no great diversified agriculture was possible in the South until it should get rid of the Texas fever cattle tick. The power was in the respective States; the appropriations were made by the Federal Government, which had the money, the men and the knowledge, if the States were willing to co-operate; but in most of the States there was another parasite—politics. This necessitated a long period of propaganda.

But the methods of eradication used in the "upper reaches" of the quarantine territory, "swabbing" the animal with crude oil, could not be used in the lowlands, for the reason that one could not catch the cattle. So the dipping vat, with solution of arsenic, was devised. Once every 14 days all the cattle within a given area were rounded up and driven through this vat and the ticks on them were poisoned. At the end of the season all the ticks on the backs of the animals were poisoned in going through the vats, and all the ticks that failed to get on the backs of the animals had died of starvation; therefore, the territory was free.

The South should be the natural home of a great livestock industry. The battle against the tick is almost won.

Brick Manufacturers' Annual Meeting.

In conjunction with the annual session of the American Ceramic Society, the National Brick Manufacturers Association will hold its forty-second annual meeting at Atlantic City, February 5, 6, 7 and 8, at the Hotel Ambassador. The New Jersey Clay Workers Association will extend a welcome to all visitors.

First disposing of business, including the election and installation of officers, the National Brick Manufacturers Association will hear a report of its research committee, C. F. Parmelee, University of Illinois, chairman, followed by papers on "Operating Condition in Some Waste Heat Driers," "Insulation of Drier Structures," "Sulphur Content of the Kiln Atmosphere During Cooling" and "Working Research Information Into Drier Construction, or Rehabilitation." Under the general head of "Clay Winning," the visitors will hear and discuss appropriate papers by recognized authorities, and later will follow the same procedure under the heading, "Power and Machinery." Other general topics on which papers will be presented are "Firing" and "Colors and Properties."

Among the speakers will be Chad Archie, Corinth Brick Company, Corinth, Miss.; A. F. Greaves-Walker, North Carolina State College, Raleigh; Edgar Mueller, Mueller Brothers, St. Louis, Mo., and R. C. Gangwere, Chattanooga River Brick Company, Chattanooga, Tenn.

The program for the conjunctive sessions covers an Art division, Enamel division, Glass division, Refractories division, Terra Cotta division and White Ware division. February 9, 10 and 11, inclusive, will be devoted to plant trips.

Completing Plans for \$400,000 Courthouse.

Greenville, Texas.—Plans for the new \$400,000 Hunt County courthouse and jail here are expected to be completed by February 4. The building will be six stories, of brick and reinforced concrete construction. William R. Ragsdale of Greenville and Page Brothers of Austin and Brownsville are associated architects.

Secretary Mellon Opens Charlotte Bank.

Recognition of the development of the South, of the stability of that development and of the prospects for its continuance was expressed by Secretary Andrew W. Mellon of the Treasury in an address to the Charlotte (N. C.) Chamber of Commerce at a dinner celebrating the establishment of the Charlotte branch of the Federal Reserve Bank of Richmond, January 19. Before entering on a sketch of the history, purposes and work of the Federal Reserve system, Secretary Mellon said:

"I have long wanted to visit this part of the South, where so many of your traditions are the same as my own. Here in this Piedmont section of the Carolinas you have many close ties with my native State of Pennsylvania. Your part of the country was settled, as mine was, largely by Scotch-Irish, and also by Germans and Quakers. They came in great numbers during the Eighteenth Century, landing in Philadelphia and then spreading westward to settle the country around Pittsburgh. Many of these same men pushed on through the valley of the Appalachian Mountains to Virginia, North and South Carolina, bringing with them such names as Graham, Alexander and Polk, which were later to become so famous in your history.

"They brought also their sturdy qualities of independence, love of civil and religious liberty, and a sense of thrift and order that enabled them to build up a civilization out of a wilderness. Wherever they went they set up their educational and religious institutions. Mecklenburg county soon became a center of Scotch-Irish civilization, so that it was not strange that the liberty-loving men of this and the surrounding counties should resist the oppressive and ill-advised measures of the British Government and, in the Mecklenburg Declaration of 1775, should be the first to give formal utterance to American independence.

"Nearly a century later, when the War Between which was so gloriously fought by both sides, had come to end and the South was faced not only by a loss of man power, but also by a disruption of her social and economic life as complete as anything caused in Europe by the last war, the descendants of these same pioneers set to work at once to rebuild their shattered fortunes. They showed the same indomitable courage as in the early days and, on the foundation of the old agricultural order they built up a new agricultural and industrial South, whose rapid increase in wealth has been one of the outstanding achievements in this country in recent years.

"The South is fortunate in that the period of her industrial expansion coincided with advances in the field of electricity, which made possible the development of the vast resources of waterpower in this part of the country. The production of cheap electric current has not only proved a great stimulus to industrial expansion, but has also brought about a greater diversification of industry, so that today, in addition to being the center of the textile industry, the South is forging rapidly ahead in the production of knitted goods, silk, furniture, tobacco and many other commodities.

"In no other part of the country has this industrial advance been more marked than in the two Carolinas. These States in the past have been predominantly agricultural and have usually been associated in the public mind with the production of cotton and tobacco. But, in recent years, the value of the manufacture of these two States combined has exceeded even the value of their agricultural output and, as a result, there has come about an increase in wealth which has necessitated a rapid expansion of their banking resources."

Industry Training Its Foremen.

Washington, January 28.—Increase from 105 in 1925 to 933 in 1927 in the number of foremen training courses in practically all lines of industry throughout the country is shown in a survey by the Chamber of Commerce of the United States. The figures, the Chamber points out, "indicate that foremen training is looked upon as an agency for greater efficiency in manufacturing." Most of the increases last year were in the larger industrial States, West Virginia, third in rank, increasing from 4 to 43. The machinery group, not including transportation equipment, has the largest number of courses, but on the basis of the number of workers employed, the rubber products and chemicals and allied products

groups are far in the lead. The training courses are carried on by individual manufacturers, State universities, industrial vocational agencies, chambers of commerce and manufacturer's associations, and the work can be conducted in any community having industrial plants.

Steel Constructors to Meet in Biloxi.

Biloxi, Miss.—Charles F. Abbott, New York, executive director of the American Institute of Steel Construction, Inc., announces that the Institute will meet in this city in November, at the Edgewater Gulf Hotel. W. M. Wood of the Mississippi Valley Structural Steel Company, Decatur, Ill., is president.

Two Power Plants for Limpia Creek, Texas.

Fort Davis, Texas, January 24—[Special.]—A permit has been granted to George A. Mills of Dallas, and associates, by the State Board of Water Engineers, Austin, to install two hydro-electric plants on Limpia Creek and surveys are now being made for dams. Transmission lines of wooden pole construction will be built from the plants to towns in Southwest Texas.

Population Center Moves Southward.

Largely because of "industrial expansion in the South and extensive development in Texas, Oklahoma and Florida," officials of the Census Bureau believe that a southward pull will be given to the population center of the country. Already the population of the Southern States is 40,000,000, and it is increasing progressively.

After two decades of movement northward and westward, it is believed that the nation's center of population in 1930 will turn again to the Southwest. Experts in the Census Bureau state that an increase in population in the South and West will affect the movement of the population center more than a larger increase in the cities of the Middle West, because of the nearness of the latter to the present center.

Director W. M. Steuart of the Census Bureau forecasts a population of about 124,000,000 for the United States in 1930, an increase of 19,000,000 over 1920.

Credit Survey Finds Business Satisfactory.

New York, January 30—[Special.]—The first month of 1928 found business moving along at a satisfactory pace, with motorcar production off to a fresh start, unemployment conditions not serious, labor conditions satisfactory, money still easy and credit under safe control, according to the January survey of business conducted by the National Association of Credit Men.

The survey says, in part:

"In production the leaders showed encouraging activity during December and January. The United States Steel Corporation reported a gain of 518,430 tons in unfilled orders for December, the largest monthly increase recorded since March, 1926.

"With the arrival of the new Ford models, automobile production has been stimulated all along the line. Costs have been steadily decreased, and motor manufacturers in 1928 can offer cars of improved quality and performance at the lowest prices ever listed.

"Agricultural conditions continue fair, except for reported damage to winter wheat in Kansas and to winter oats in Texas. Citrus fruit growers in Southern California were threatened by a recent cold spell, but averted damage by 'smudging.'

"One correspondent, engaged in distribution on a national scale, sums up the prevailing belief in the words, 'Situation sound; larger business anticipated.' Another comments, 'Business and money here for those who work.'"

Auburndale Typical of Florida Progress.

By W. H. ROSSMAN, Secretary, Chamber of Commerce, Auburndale, Fla.

During 1927, when there was presumed to be a general business depression, Auburndale in Florida evidenced greater progress than that achieved in the so-called "boom period," and has continued to grow. It has weathered the aftermath of the "boom" in especially good shape because there was very little inflation of values or spectacular development in 1925-1926; therefore, its period of readjustment has been comparatively short. The development that has taken place during 1927 has been of a sound and substantial type and there is reason for belief that Auburndale will achieve greater progress in 1928 than at any time in the past five years.

"Traffic makes values," it is said, and Auburndale is a traffic center for south and central Florida. Transportation facilities are afforded by the main lines of the Seaboard Air Line Railway and the Atlantic Coast Line, while also Auburndale is served by the Dixie Highway, Lee-Jackson Highway



AUBURNDALE-LAKELAND HIGHWAY.

and Appalachian Scenic Highway, and several State roads pass through the city. Also, Auburndale is a center for the network of Polk county's velvet-like system of paved roads, these leading to Lakeland, 13 miles; Orlando, 50 miles; Winter Haven, 5 miles, and Haines City, 12 miles.

The present site of Auburndale was selected 50 years ago by the late Frank Fuller; today its record shows: Population, 3000; building permits for the first 10 months of 1927, \$104,860; gross postal receipts for the first 9 months of 1927, \$5903.28; bank resources as of February 6, 1927, \$658,889.98; annual payroll, estimated, \$730,000; city bonded indebtedness, \$1,000,000; miles of paving, 25; water meters, 300; telephones, 125; assessed valuation city, \$5,500,000; city mileage, 14½.

Industrial progress in 1927 showed a grapefruit cannery and citrus packing house, and municipal progress showed a city athletic field opened, \$15,000, and city hall in course of construction, \$55,000.

The formal opening of the Hotel Paul Smith marked the year, the hotel representing an investment of \$125,000. The First National Bank of Auburndale completed its building a little earlier. The new city hall and municipal building will provide much needed facilities for the efficient handling of city business. It is of a splendid type of architecture and well located in relation of the business section of the city.

Following an exhaustive investigation, Edmund Rushmore, president of the Spanish American Fruit Company, New York, selected Auburndale as a site for its first Florida grapefruit cannery, which is now completed at a cost of \$35,000, with an annual payroll of \$80,000. The Adams Packing Company built and is now operating one of the most modern citrus

packing plants in the State, just completed at a cost of \$50,000. In addition, many retail business firms located in the city during 1927.

At present the citrus industry leads all others in this city, but also splendid locations for industrial purposes are avail-



ATTRACTIVE HOME IN SEMI-TROPICAL SETTING.

able on an attractive basis, with frontage on the Seaboard Air Line and Atlantic Coast Line railways. A plentiful supply of skilled or unskilled labor is available and the city is furnished with power by the Auburndale Power Company. Chemical analysis discloses that the water supply is 99.5 per cent pure, being suitable for all purposes, including industrial, and is free of sulphur. More than 750 homes, ranging from the small cottage to the palatial homes of Auburndale's winter colony, supply splendid housing accommodations. Finally, beautiful drives abound in Auburndale and vicinity, and smooth, paved highways wind their way beneath moss-festooned oaks and swaying palms, and tropic growths and flowers border the highways that traverse this scenic wonderland.

Texas Land Put in Cotton.

Harlingen, Texas, January 28—[Special.]—An increase of cotton acreage, not only in the Lower Rio Grande Valley, but also in the non-irrigated district extending 75 to 100 miles back from the river, is in prospect for the coming season. Big areas of ranch land in this territory are being cleared and made ready for cultivation for the first time, and most of it will be planted in cotton. In the irrigated Valley region the fields now in winter vegetables will be devoted to cotton as soon as the present crop is removed. Just how much increase of cotton acreage there will be is not definitely known, but it is indicated that it may reach 25 per cent over that of last year.

Project of Savannah River Electric Company.

P. S. Arkwright of Atlanta, president of the Savannah River Electric Company, recently reported as having been granted license for a hydro-electric power project on the Savannah River, near Clarks Hill, at an ultimate cost of \$50,000,000, advises that permit has been granted by the Federal Power Commission, Washington, but plans must be completed and necessary riparian rights acquired before actual construction may be considered. O. G. Thurlow of Birmingham, Ala., is engineer in charge.

ANIMALS ON FARMS REACH HIGHEST VALUE SINCE 1920.

**Value As of January 1, 1928, Was \$5,596,922,000,
a 10 Per Cent Gain Compared With Previous
Year—Increase in Hogs and Sheep,
Other Animals Declined.**

Increased numbers of hogs and sheep and decreased numbers of cattle, horses and mules, January 1, 1928, compared to a year ago, are shown by the annual estimate of the Division of Crop and Livestock Estimates, Bureau of Agricultural Economics, United States Department of Agriculture. It seems that "Old Dobbin" is waging a losing fight against the motorcar and tractor. Horses have continued to decrease and the number on the farms of the country is now at the lowest point in over 40 years. In 1910 the Census showed 19,833,000 horses on the farms of the country, while the estimate of January 1, 1928, was 14,541,000, a decrease of 5,292,000 head, or one-quarter less than reported in 1910.

Increases and decreases in numbers of farm animals were shown by nearly all sections of the country, but in varying degrees. Both the numbers of milk cows and of heifers being kept for milk cows showed small increases compared to a year ago. Combining all livestock numbers in units which allow for difference in size and feed requirements of the

several species, it appears that the decreases in cattle, horses and mules approximately offset the increases in sheep and hogs.

On January 1, 1928, the aggregate value of all livestock on the country's farms was \$5,596,922,000, compared to \$5,078,418,000 on January 1, 1927. The 1928 valuation is the highest since 1920. The increased value this year, amounting to 10.2 per cent, was due principally to the marked increase in the value per head of cattle, which more than offsets the decrease in cattle numbers and also offsets the decrease in total hog values resulting from the marked decrease in the value per head of hogs.

Animals on the farms in the South on January 1 were valued at \$1,535,493,000, a gain of \$195,113,000, as compared with \$1,340,380,000, the value of January 1, 1927, and an increase of \$243,000,000, compared with the value January 1, 1926. The South's increase compared with the estimates of a year ago was 14 per cent, while the country's total gain was but 10 per cent. Sheep and swine increased in the South last year, while there was a decrease in the number of other farm animals.

According to this estimate, on the farms of the South are nearly one-third of all the cattle in the country, over 28 per cent of the country's cows and heifers kept for milk, over 19 per cent of the country's sheep, over 28 per cent of the country's swine, 24 per cent of the country's horses and more than 80 per cent of all the mules in the United States.

	United States				South			
	Number, January 1		Value, January 1		Number, January 1		Value, January 1	
	1927	1928	1927	1928	1927	1928	1927	1928
Horses and colts.....	15,145,000	14,541,000	\$971,258,000	\$975,298,000	3,669,000	3,479,000	\$185,302,000	\$188,046,000
Mules and colts.....	5,679,000	5,566,000	423,010,000	443,097,000	4,580,000	4,498,000	341,622,000	361,372,000
All cattle.....	56,872,000	55,696,000	2,409,077,000	3,014,086,000	18,304,000	18,136,000	554,039,000	739,147,000
Milk cows.....	21,818,000	21,948,000	1,362,006,000	1,699,526,000	6,185,000	6,326,000	268,214,000	362,840,000
Sheep and lambs.....	41,846,000	44,545,000	406,231,000	455,224,000	7,773,000	8,558,000	66,680,000	78,555,000
Swine.....	54,408,000	58,969,000	868,842,000	709,217,000	15,028,000	16,875,000	192,737,000	168,373,000

Resort and Residential Development Near Annapolis—\$1,500,000 Hotel Contemplated.

Harold Keats of Washington, D. C., interested in a development near Annapolis, Md., advises that the Annapolis Roads Company is developing a tract of 341 acres on the Chesapeake Bay, about two and one-half miles from Annapolis. Olmsted Brothers of Brookline, Mass., have done landscaping and made layouts for roads and lots, while John Russell Pope of New York has been asked to act as supervising architect. F. Irwin Ray of Washington is constructing an 18-hole golf course under the supervision of Charles H. Banks, who designed it, and is building roads. The company will also construct a pier, install a water system and provide electric light and power facilities, telephone and dredging. Road construction is expected to be completed by March 15 and the golf course ready by September 15.

At present a tavern is under construction by a private owner and it is anticipated that a large number of houses will be erected by individual interests. Mr. Pope is said to have prepared plans for a \$1,500,000 hotel to be erected by a separate organization.

\$1,000,000 Contract for Telephone Building Addition.

Kansas City, Mo.—General contract for the erection of 13 additional stories to a 14-story building here has been awarded at \$1,062,000, to the Swenson Construction Company, Kansas City, by the Southwestern Bell Telephone Company, St. Louis. The addition will be 125 by 96 feet, with a terra

cotta exterior and concrete floors. It will be equipped with metal windows, elevators and heating plant. Steel contract was previously reported let to the American Bridge Company, New York, and steel erection to the St. Louis Steel Erection Company, St. Louis. Hoyt, Price & Barnes of Kansas City are the architects, and I. R. Timlin, St. Louis, associate architect.

Oklahoma Gas and Electric Company's 1928 Program—250 Miles Transmission Lines Built in 1927.

Oklahoma City, Okla., January 24—[Special.]—A construction program for 1928, announced by J. F. Owens, vice-president and general manager of the Oklahoma Gas and Electric Company, includes the completion of the company's general office building here, which will be ready for occupancy in February; a third generating unit to be installed at the Horseshoe Lake Station, near Harrah, to be completed in the fall, and increase the capacity to 87,500 horsepower, and doubling capacity of the Broadway sub-station in Oklahoma City. The third year's program for Oklahoma City's downtown underground electrical distribution system calls for extension of work done last year to Walker avenue on the west and Third street on the north. The project will require two more years to complete.

Construction done last year covers 250 miles of high voltage transmission lines; power plant enlargements at Byng station, increasing capacity from 8000 to 24,000 horsepower; two new boilers for the Horseshoe Lake, and minor improvements in power plant equipment at Ardmore, Durant, Shawnee and Shattuck. Connections with other power and light companies were made at Arkansas City and Weleetka.

An Oklahoma City Poultry Colony.

By T. M. JEFFORDS, Agricultural Agent, Missouri, Kansas and Texas Railroad.

Oklahoma City, Okla., January 28.—Oklahoma City will soon have a poultry colony—a new project for the Southwest. The local chamber of commerce has spent nearly two years in gathering data to determine whether Oklahoma can successfully enter this new field, and the conclusion has been reached that Oklahoma is adapted to this business, and can compete with other States. Accordingly, a large acreage of land was purchased east of the city on the Twenty-third Street road, and soon the Oklahoma City poultry colony will be a reality.

The main difference between a home in a modern poultry colony and a home in the city is that the production and sale of eggs will provide an income for the family in the colony. Part time or all time may be devoted to egg production. A man may hold down an eight-hour-day job in town, thus providing a living income and, with some help from the wife or a child, he can care for 500 to 1000 hens. He can expect over \$1 profit per bird, or an income of \$500 to \$1000 a year. The man who devotes his whole time to the business can care for 3000 to 5000 hens. Many families elsewhere make \$2 and even more per bird.

The success of a colony depends largely on the poultry adviser, a specialist with college training and successful experience in commercial poultry. He is on an annual salary paid by the promoters, and devotes his entire time to teaching and training colonists in every phase of egg production and marketing. His services are free to all colonists, and to no one else. He is right with the colony daily, superintending the various flocks.

Why do we think that Oklahoma can succeed in this project? Because they are succeeding elsewhere under conditions not so favorable in many respects as exist here. For instance: Our black-jack soil here is ideal for poultry. Our climate is as favorable as that of California, where colonies thrive. California eggs are marketed east of the Rocky Mountains, chiefly in New York, and Oklahoma City is only half as far from New York as is California, with half the transportation charges and half the time to reach market. Land in California colonies sells as high as \$3250 an acre, with perhaps \$2000 as an average, and an annual charge of \$15 to \$25 an acre irrigation charge. Land here is much cheaper, and has no water rights to pay. California gets its corn and kafir for chickenfeed from east of the Rockies and pays 35 cents a bushel freight; we grow our own grains. These are advantages in Oklahoma's favor. California cannot overcome them. They do excel, however, in a better knowledge of the business, but we can learn.

The question is frequently asked whether the supply of eggs may not soon exceed the demand and prices slump. This has already happened in the case of the ordinary run of eggs, such as are produced by ordinary farm flocks. But for the quality of eggs that are produced in colonies the supply has never yet equaled the demand and good prices have prevailed for this quality of eggs. As the quality of eggs is improved, the annual consumption per capita increases materially.

No colony elsewhere is laid out more attractively than the one fostered by the Oklahoma City Chamber of Commerce. None has a more capable adviser. No soil is better adapted to poultry and the allied industries of fruit and truck. No colony is better conceived or financed. None has better homes, or a better citizenship than will this colony. The influence on poultry and egg development throughout the State will be profound. The colony will be an inspiration to the thousands who visit it. Chicks, pullets, breeding stock, eggs for setting,

ideals for successful management, all these will be made available to the entire Southwest through the colony.

The Chamber of Commerce considers this colony an outstanding accomplishment, fraught with great possibilities for the development of this city and, even more, of the State as a whole.

Construction is being handled by G. A. Nichols, Inc., of Oklahoma City, and work now going on includes street graveling, construction of telephone and electric light lines, administration building and about 20 brick and frame bungalows of five and six rooms.

South Florida's New Port Business.

By GERRY SWINEHART.

West Palm Beach, Fla., January 28.—Marking a new era—the beginning of commercial exportation here—more than 300,000 feet of lumber were shipped north from the new port of Palm Beach on January 21 and 22. The shipment went to Baltimore by the Jean Weems, Baltimore and Carolina Steamship Company freighter.

The shipment, from the Indian Lumber Company at Kelsey City, six miles north of here, is significant of the beginning of regular weekly cargoes, which are expected soon to total as much as 1,000,000 feet a month. At present the mill is prepared to ship at least 100,000 feet a week for an indefinite time. Meanwhile, officials here are conducting negotiations with other lumber companies throughout the central and southern portions of the State.

According to J. F. Burr, agent for the Baltimore and Carolina Company, the shipment last week constituted the first large outbound cargo through the new inlet. It was made on the first steamer to dock in the new concrete slip, work on which has just been completed, and was effected through use of the new Florida East Coast Railway spur track which now gives shipside connections. Wharfage charges have been placed at 20 cents per ton for slag and coal and at 40 cents per 1000 feet for lumber.

The shipment of lumber, a shipment of 15 carloads of fish sent north by rail last week, and a report just submitted to the harbor commissioners on agricultural development in this section as applying to the port, all are held to be indicative of the rising tide of sound commerce and business in South Florida.

The report on agriculture, to be incorporated in a detailed report to the War Department in asking for Federal aid, revealed that production from this section has included 5000 carloads of citrus, 20,000 carloads of vegetables, 5000 carloads of naval stores and lumber and 3000 carloads of livestock, totaling 33,000 carloads of commerce.

In the season 1925-26, according to this report, 666 carloads of vegetables were shipped from Palm Beach county, and in 1926-27, 1053 carloads. At Pahokee, it was reported, 6400 acres are under cultivation. Production of edible oil from soy beans and peanut culture was stressed. It was stated that farmers were anxious to produce onions, potatoes and hardier vegetables, but were held up because of excessive transportation costs.

Hotel Chain for North Carolina.

Raleigh, N. C.—A chain of hotels in North Carolina will be erected by the Carolina Hotel Company, recently organized here with H. A. Underwood of Raleigh, president. The first building will be erected in this city at a cost of \$800,000, the structure to be nine stories, 102 by 104 feet, of reinforced concrete and steel, with limestone and buff brick exterior. The H. A. Underwood Company is the architect and John W. Hudson, Jr., Tarboro, N. C., general contractor.

The Manganese Situation, 1927.

Domestic shipments of manganese ore containing 35 per cent and more of metallic manganese totaled in 1927 approximately 43,600 long tons, valued at \$1,142,000, according to preliminary figures compiled by the United States Bureau of Mines. This is a decrease of 6 per cent from the 1926 shipments, which amounted to 46,258 tons. The decrease in average value per ton of all ore shipped in 1927 is due, in part, to the decreased world's price of metallurgical ore and also to the decreased shipments of chemical ore in comparison with those of metallurgical ore. The shipments of metallurgical ore amounted to 26,000 tons, valued at \$416,000, while those of 1926 were 26,530 tons, valued at \$379,893. The shipments of chemical ore in 1927 amounted to 17,600 tons, valued at \$726,000, while those of 1926 were 19,728 tons, valued at \$848,770.

In 1926 the Butte, Mon., district shipped 1263 tons of rhodocrosite ore and in 1927, 6800 tons having a manganese content of 37 per cent. The major part of the 1927 shipment was calcined at Trident, Mon., and yielded 3600 tons, or 55.9 per cent material, which was shipped East. The combined shipments from Butte of calcined ore plus crude ore, chiefly for metallurgical use, amounted to 4014 tons. In the early part of August shipments of ferruginous manganese ore from Leadville, Col., were resumed. The shipments of manganese ore from Arizona, Arkansas, Idaho, Montana and New Mexico showed increases over 1926. The largest increase made by any State was that of Idaho which produced four times as much in 1927 as in 1926. The largest decrease was shown by Washington, which produced 3162 tons of high-grade ore in 1926, but none of this class of ore in 1927.

The quoted price of high-grade manganese ore in 1927 decreased materially in the latter part of the year. Quotations for foreign ore, crude, have been approximately 33 cents per unit, whereas the average price of 1926, Atlantic seaboard, was 39 cents per unit.

Figures furnished by the Bureau of Foreign and Domestic Commerce show that during the first 11 months of 1927 the metallic content of imported ore was 276,823 tons. The gross tonnage was 554,382 tons. This includes importation from Cuba. Assuming that the imports for December were at the same rate as during the first 11 months, the total importation would be approximately 605,000 tons, as compared with the total imports of 738,000 long tons in 1926. The decrease in imports is attributed in the main to the decreased manufacture of steel during the year, and possibly to the draft on stocks in the hands of consumers. The imports of manganese ore from Soviet Russia for the first 11 months of 1927, amounted to 223,099 tons, compared with 254,885 tons for the entire year of 1926. Brazil furnished 150,026 tons for the first 11 months of 1927, compared with 272,287 tons for the entire year of 1926. India furnished 87,817 tons for the first 11 months of 1927, compared with 63,742 tons for the entire year of 1926. The imports from British West Africa (Gold Coast) for the first 11 months of 1927 amounted to 81,200 tons, compared with 100,614 tons for the entire year of 1926.

For the first 11 months of 1927 the manganese content of ferromanganese imported was 25,684 tons, as compared with 36,521 tons for the corresponding period of 1926.

The shipments of domestic ore containing from 10 to 35 per cent of manganese (ferruginous manganese ore) in 1927 were 134,000 tons, valued at approximately \$609,000, as compared with 364,312 tons, valued at \$1,179,429, in 1926. The domestic shipments of ore containing from 5 to 10 per cent of manganese (manganiferous iron ore) in 1927 were 1,317,000 tons, valued at \$3,306,000, as compared with 835,412 tons, valued at \$1,734,381, in 1926. The changes indicated are

largely explained by the fact that much of the output in Michigan and Minnesota is of about 10 per cent tenor, being classified in some years as ferruginous manganese ore, in other years as manganiferous iron ore. There was a very decided increase of production of ferruginous manganese ore in Colorado in 1927, when 29,600 tons were produced, as compared with 2925 tons in 1926. A large quantity of manganiferous iron ore produced in Wisconsin in 1927 containing slightly more than 5 per cent manganese is included in the above figures, whereas the corresponding output in 1926 fell below this grade and has not been included because classed as iron ore.

The apparent outstanding features of the year have been the increase in the domestic manufacture of spiegeleisen and the increased production and consumption, relative to the production of steel, of ores having a low metallic manganese content. While the combined production of ferruginous manganese and manganiferous iron ores in 1927 differs but slightly from the production of 1926, the gross tonnage of steel produced decreased.

Black Base Paving on the Coastal Highway.

The use of black base pavements is rapidly spreading for State highways and for city pavements, says the Asphalt Association. On the Coastal Highway, which extends along the Atlantic Seaboard, through South Carolina and Georgia, a total of 30.7 miles are of this type of construction. Of this, 6.7 miles are in Charleston county, South Carolina, 11 miles extending south of Savannah, Ga., and a 13-mile section between Darien and New Brunswick, in Georgia.

As illustrated in the January 5, 1928, issue of the MANUFACTURERS RECORD, pages 94-95, the usual construction consists of a base course 3½ inches in depth of asphaltic concrete, popularly known as "Black Base." Upon this is laid an asphalt surfacing 2 inches in depth. Not only on the country highways but also in the cities, black base is being adopted, it is pointed out, and all of the asphalt pavements laid in recent years in Savannah, Ga., have been on black base foundations. With this type of construction, worn gravel and macadam roads may be strengthened and resurfaced, and thus transformed at moderate expense into high type pavements capable of carrying the heavy traffic of today.

John S. Keefe Steel and Wire President.

As reward and promotion for hard work and long experience, John S. Keefe has been elected president of the American Steel and Wire Company, one of the most important subsidiaries of the United States Steel Corporation, and will exercise executive management of the concern. Mr. Keefe entered business life with the Chicago and Northwestern Railroad, this experience leading him into the American Steel and Wire Company as general traffic manager. After a few years he was made a vice-president and director, at the same time serving as chairman of the traffic committee of the United States Steel Corporation. He is described as a tireless worker, a man of strict modesty and with a large circle of loyal friends.

Bids Asked on \$500,000 Cumberland Hospital.

Cumberland, Md.—Bids will be opened February 28 by the Memorial Hospital Commission, George C. Young, secretary, for the \$500,000 hospital to be erected by the city on Johnson's Heights here. The structure will be T-shaped, three and four stories, of brick and concrete, with a porch on each floor and a solarium on the top floor. Zantzinger, Borle & Medary of Philadelphia, Pa., are the architects, with Dr. S. S. Goldwater of Mt. Sinai Hospital, New York, as consultant.

IRON, STEEL AND METAL MARKET

Pittsburgh Steel Market.

Pittsburgh, January 30—[Special.]—Steel producers continue to announce price advances. Following that of a dollar a ton in bars, shapes and plates reported a week ago, an advance of \$2 a ton in all wire products except fence is being announced, the American Steel and Wire Company making its announcement last Wednesday while the two Pittsburgh district producers took similar action in the next two days. Hot rolled strip makers have announced \$2 a ton higher prices for forward business. One or two producers recently advanced prices on cold rolled strips \$3 a ton, but this advance does not seem to have been generally followed. It is definitely understood cold finished bar makers will soon announce a \$2 a ton advance.

Advance in Price of Steel Products.

All these price advances are predicated upon unsatisfactory earnings last year, particularly in the fourth quarter. When all the earnings reports have been issued it will be seen that there was a substantial decrease from 1926 to 1927, considering each year as a whole, and a marked drop in the fourth quarter of 1927 relative to the average of the three preceding quarters. Yet for more than a year it has been said that the steel industry was earning no more than about 5 per cent on its investment.

To advance steel prices is very difficult, but not impossible. The ultimate consumer would scarcely notice the difference and in the long run tonnage would not be affected to any appreciable extent. Much resistance is encountered on the part of mill customers, who as a rule manufacture to sell in turn, and have difficulty in advancing prices so as to pass the movement along.

A couple of months ago nail producers reasserted their \$2.55 base price on nails and put out a new list of extras, advancing the average by about 15 cents a keg, thus attempting a double advance. Contracts for the current quarter were made at the advanced prices, but shipments on old contracts do not seem to have been completed. The fresh advance just made is plainly with the objective of making present contracts effective in actual shipping orders. Then these new prices might be made to apply for second quarter shipments, with a further advance, above \$2.65 for nails, in the ordinary open market.

Heavier Steel Tonnage.

Steel tonnage is proving fairly heavy, as mills are operating at fully 15 per cent above their rate in December and further increases are in prospect. It is recognized, however, that this is simply the usual seasonal increase. While the rate of steel production is the highest since last May, it is only about equal to that of one year ago and is about 10 per cent below the rate at this time in 1926. According to precedent there would be a downturn in tonnage after March, but there are good chances of this being avoided, as there are particularly favorable prospects in several consuming lines. The automobile industry will do much better than last year and is not likely to reach its peak production until the year is well advanced. Indications are there will be more freight car building than in 1927. Fabricated structural steel lettings are running especially heavy. Last week the Cleveland Union Terminals job was let, involving 57,800 tons, but outside of that there was more than 45,000 tons of fabricated structural steel placed. The weekly average thus far this year is one-half greater than last year's average.

As to the agricultural implement trade, it had a very good year in 1927 and is now running better than the average of

the year, with good prospects definitely seen for the next few months.

Demand for standard or merchant pipe has begun its usual seasonal increase, by reason of jobber distribution increasing rather than by jobbers being disposed to accumulate stocks. In oil country tubular goods the pipe mills expect to have a poor year, though perhaps a little better year than they had in 1927. Oil production has been decreasing almost continuously for six months, but there are large stocks above ground and much oil has been held back in wells so that there is no occasion for general drilling.

The pig-iron markets continue dull. Scrap is a trifle easier in the Pittsburgh district.

Birmingham Iron Market.

Birmingham, Ala., January 30—[Special.]—Sales of pig iron, mainly in small lots, have aggregated well so far this year, and furnace interests apparently are well satisfied not only that the probable make will be covered but also that considerable reduction in the surplus foundry iron stock will have been accomplished by the end of the three-month's period. Ten blast furnaces are making foundry iron now, but the number will be reduced by one within another week or so. The Sloss-Sheffield Steel & Iron Company plans, a little later, to start on building an iron maker similar to the No. 2 city furnace which is attracting much attention in the iron world for the reason that not only has its output been materially increased, now around 450 tons daily, steady, but also the interior developments have been such as to provide lining arrangements, which mean permanency, besides which there has been an elimination almost entirely of flue-dust, a terrific loss in the pig iron production. Later, the Gulf States Steel Company will begin the dismantling of its blast furnace at Alabama City, near Gadsden, and rebuilding it also along the lines of the Sloss-Sheffield No. 2 city furnace. The Tennessee Coal, Iron and Railroad Company soon will start up its first of the two very large blast furnaces erected at Fairfield, these furnaces to have a daily output of 600 tons each when in full operation. These furnaces will produce basic iron and will probably mean the placing of other smaller furnaces in the obsolete column.

Pig-Iron Is Steady.

No reports are to be heard of pig-iron being sold into the first half as yet, intimation being given that furnace interests are not stirring themselves toward getting business for that period. The quotation base is still \$16 per ton, No. 2 foundry, and belief is strong that an advance of \$1 at least will be noted within the next few weeks.

The surplus stock of foundry iron is at least 30 per cent greater than it was at the first of the last year, but not sufficiently large to cause any distress.

The cast-iron pipe interests have been buying right along and lettings have started coming in for pipe, mainly water pipe, to be delivered during early spring. The production at the pressure pipe shops of the district is about equal to what it was last year, in some instances a little better than last winter. There is some stock on hand. Pressure pipe base is given at \$29 to \$30 per ton for 6-inch and over sizes. The soil-pipe manufacture found a little impetus following a cut in price base.

Other melters of pig-iron are asking for delivery again on contracts placed a few weeks ago and the lull as to iron moving from furnace yards is passing. It is to be observed that the second and third months of the new year will see quantities of pig-iron moving.

The steel market is showing improvement week after week

and production and fabrication both are fast getting down to a steady pace. Local contracts for structural steel are being felt by fabricating shops of the district, with an occasional contract from afar, and the railroads of the district and adjacent States are still placing orders for rail and accessories. Additional orders are anticipated from the railroads as further replacing and new development is carried on.

Coal Marks Time.

The coal mining industry is rather slow for this time of the year. The coke market is steady and quotations are firm at \$5 per ton on foundry coke, with production not much under the capacity.

The scrap iron and steel market is unchanged. Quotations for old material have changed but little for a long time, heavy melting steel holding at \$10.50 to \$10.75, delivered in the home territory.

Quotations on pig-iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.

ODL MATERIAL.

Old steel axles	\$16.00 to	\$17.00
Old iron axles	16.00 to	17.00
Old steel rails	11.50 to	12.00
Heavy melting steel.....	10.50 to	10.75
No. 1 cast.....	14.00 to	14.50
Stove plate	13.00 to	14.00
No. 1 railroad wrought.....	11.50 to	12.00
Old car wheels	14.00 to	15.00
Old tramcar wheels	14.50 to	15.00
Machine shop turnings	8.00 to	9.00
Cast-iron borings	8.00 to	9.00
Cast-iron borings (chem.).....	13.00 to	13.50

The Metal Market.

New York, January 30—[Special.]—The non-ferrous metals were more hopeful last week, though in promise more than in performance. Prices are essentially unchanged, the chief difference being that the quiet concessions in price which had prevailed the preceding week had for the most part disappeared.

Thus, in copper, the custom smelters, whose main point is always to sell without much concern for the price, stopped selling at 14 cents per pound, delivered to the Connecticut Valley, and came up to 14½ cents, where the large producers were already in their quotations. In lead, the 1500 tons of second-hand material, which had hung over the market the preceding week was removed and the price of the principal producers again ruled. Zinc firmed a bit to 5.65 cents per pound, East St. Louis, which was about \$1 per ton higher than during the preceding week.

Definite Improvement in Steel.

The improvement in the steel industry continues very pronounced. Where steel is used there go many non-ferrous metals as well. Just now the purchasing of the farmer is very conspicuous as regards products involving steel, such as radios, washing machines and automobiles.

The precious metals remain steady. Silver is around 56½ cents per ounce or 1 cent lower than late last year. Quicksilver continues to ease off. The London price declined 2s 6d and domestic prices are sagging, the latest quotation being \$122.50 per flask of 75 pounds. Platinum is steadier and the news of recent rapid advances is being digested.

The principal statistics to come out involve zinc. They are the figures for the first half of January. During this spell the surplus stocks of slab zinc were increased 3615 tons to 44,366 tons, which is not significant since shipments are invariably heavier during the second half of the month. The indications are that for this month as a whole there was but little change in the situation. One of the bright features were the exports for this 15-day period, amounting to 2610 tons, which indicates a January total of 4000 tons, or double

the average for the past several months. The number of retorts in operation on January 15 was 72,668 tons.

The Situation in Zinc.

Though the price of prime western slab zinc advanced slightly during the past week, the zinc trade does not look for materially higher prices for months. It is plain that new uses must be found for the metal and old uses extended. In November, 1925, the price of prime Western slab zinc at New York was 9.04 cents per pound on an average, whereas the quotation today is 6 cents per pound, New York. This is a shrinkage of one-third in value in a little over two years.

Though the world consumption of zinc has been expanding in a normal manner the production and potential production has gained more rapidly, chiefly because of the development of the flotation process of treating complex ores. Hence, zinc is going through one of those upheavals that occurs in many a commodity. In looking about for ways to expand its use it is suggested that the makers of galvanized sheets and wire be induced to use a heavier coating of zinc. Frequent complaints are made by users of both tin plate and galvanized sheets of the thin veneer of the coating metals. Many years ago the makers of these products used more coating metal not only because there was more pride in workmanship, but because their processes did not provide for spreading the metal so evenly and thinly.

Export Sales of Copper.

The principal selling of copper has again been for export. About 9,000,000 pounds were thus sold on Tuesday and 6,500,000 tons on Wednesday. London prices were rising each day until, at one time, the London price was higher than the American equivalent for export of 14½ cents c. i. f. European ports. On Thursday, however, there was a sharp price reaction overseas. Domestic consumers bought moderately at 14.10 cents or 14.12½ cents. Makers of copper wire report an improvement in their orders, and this is improvement where it is most needed. This class of copper consumer bought 12 per cent less copper in 1927 than during the preceding year.

Deliveries of copper from the lake smelters to the automobile plants is a little quieter for the moment. The Ford Motor Company has been hauling the red metal in its own boats from Calumet, Mich., to its plant at Detroit. The Buick Motor Company has also been getting its copper at the same source, though the other automobile makers buy at Detroit. The increase in the per capita consumption of copper in this country is faster than the per capita increase in the use of steel. In other words, the public begins to appreciate the greater permanence of copper, such as in window screens, eaves, downspouts, plumbing, etc.

The tin market has gone stale. At one time during the week prices were 1½ cents per pound above the low point of two weeks ago, but as the week progressed tin prices declined because of lack of buying and prices were only a small fraction of a cent higher than this low. Though prospects for tin consumption are better this year, it is evident that the production in the Far East is increasing too rapidly for the comfort of the sellers.

The purchasing of lead has not been as brisk as the producers had expected at this season of the year when the holiday influence is a thing of the past. Prices have been steady, as far as first-hand lots go, at 6.50 cents per pound, New York, and 6.30 cents, East St. Louis. Purchasing is confined to small lots for prompt shipment. The best buying was on the part of the lead-covered cable manufacturers and the makers of so-called "blue-lead products."

A total of 13,720 building permits was issued by the Building Commissioner of St. Louis during 1927, representing a cost of construction of \$42,675,182.

RAILROADS

MERGER OF LINES IN LOUISIANA, TEXAS AND ARKANSAS.

Harvey C. Couch of Pine Bluff, Ark., at the Head of Important Combine.

Merger of the Louisiana and Arkansas Railway and the Louisiana Railway and Navigation Company's railroad, under the name of Louisiana and Arkansas Railroad, which was foreshadowed in the MANUFACTURERS RECORD of December 22, has been announced at Alexandria, La., by Harvey C. Couch of Pine Bluff, Ark., whose plans to combine the two roads were described. Mr. Couch is reported from Alexandria as saying that the merger is subject to approval by the Interstate Commerce Commission. The deal, it is stated, amounts to about \$28,000,000, of which \$18,000,000 is said to be represented by the Louisiana Railway and Navigation property and \$10,000,000 by the Louisiana and Arkansas road.

The Louisiana Railway and Navigation Company's main line of railroad is 306 miles long from New Orleans northwest to Shreveport, La., but west of the latter is an extension of 204 miles from Shreveport via Jefferson, Pittsburgh, Winnsboro, Sulphur Springs and Greenville to McKinney, Texas. There is also a branch in Louisiana from Aloha to Winfield, 27½ miles, making a total of about 537 miles of line. The Louisiana and Arkansas Railway has 300 miles of line between Hope, Ark., and Alexandria, La., which latter is on the main line of the other road. It also has branches from Minden to Shreveport, La., and from Packton to Vidalia, La., the latter being on the Mississippi River opposite Natchez, Miss. The lines reach oil fields and lumber regions of importance.

Among those mentioned as being associated with Mr. Couch in the merger are Rogers Caldwell, of Caldwell & Co., bankers, Nashville, Tenn.; James P. Butler, president of the Canal Bank and Trust Company of New Orleans, La.; W. C. Ribenack, president of the Stout Lumber Company of Thornton and Little Rock, Ark.; C. P. Couch, vice-president of the Southern Utilities Company of Dallas, Texas; T. J. Gaughan of Camden, Ark.; C. S. McCain, president of the National Park Bank, New York city; Dean Mathey of Dillon, Read & Co. of New York city; C. H. Moses of Little Rock, and others.

The roads concerned connect with the St. Louis-San Francisco, the Rock Island, the Texas & Pacific and Kansas City Southern lines.

Harvey C. Couch has long been prominent as head of the Arkansas Light and Power Company.

Chesapeake and Ohio New Equipment.

The Chesapeake and Ohio Railway Company has given awards for new equipment totaling \$775,000, according to announcement by W. J. Harahan, president. The equipment consists of 500 70-ton steel hopper bottom gondola car bodies, removing and dismantling car bodies from trucks, cutting and loading the scrap and making the necessary repairs to the trucks. The award for 300 of these cars goes to the Richmond Car Works, Richmond, Va., and for 200 cars to the American Car and Foundry Company, Huntington, W. Va.

Car Building at Norfolk and Western Shops.

Continuing its policy of providing as steady employment as possible to its shop forces, the Norfolk and Western Railway will construct 250 gondola coal cars and 30 locomotive tenders in its shops at Roanoke, Va. The gondola cars will be all-steel and will have a capacity of 90 tons each. The tenders will have a water capacity of 18,000 gallons and a coal

capacity of 26 tons. Both gondolas and tenders will be identical in design to equipment of the same capacity now in service on the railroad.

In addition to these and other orders for new equipment to be constructed in the railroad's shops, 1000 all-steel, 57½-ton, hopper coal cars will be rebuilt by industrial plants which do work of this character. Bids for the cars are being obtained and award of the contracts will be announced soon.

Freight Loadings Hold Up Well.

The American Railway Association says that loading of revenue freight on the railroads for the week ended January 14 totaled 906,734 cars. This was an increase of 152,672 cars above the preceding week, which included the New Year holiday, with increases being reported in the total loading of all commodities. The total for the week was, however, a decrease of 35,997 cars under the same week in 1927, while it also was a decrease of 25,001 cars compared with the corresponding week two years ago.

Decrease in Surplus Freight Cars.

Class 1 railroads on January 15 had 424,291 surplus freight cars in good repair and immediately available for service, the car service division of the American Railway Association shows. This was a decrease of 37,378, compared with January 7. Surplus coal cars on January 15 totaled 161,487, a decrease of 15,679 cars within approximately a week, while surplus box cars totaled 207,980, a decrease of 21,382 for the same period. Reports also showed 23,657 surplus stock cars, a decrease of 875 under January 7, while surplus refrigerator cars totaled 14,576, an increase of 315 for the same period.

New Fast Freight St. Louis to Mobile.

Fast freight service from St. Louis to Mobile, Ala., in 42 hours began on the Frisco Lines February 1, in connection with the Alabama, Tennessee and Northern Railway. The new service is made possible by the completion of the Frisco's rail-laying into Aliceville, Ala., where the connection is made. This is part of the new line from Aberdeen, Miss., to Kimbrough, Ala., where it connects with the Muscle Shoals, Birmingham and Pensacola Railway which runs from Kimbrough south to Pensacola, Fla., all being part of the Frisco extension.

A General Claim Agent and a Florist Appointed on the Frisco.

H. W. Hudgen, formerly chief claim agent, has been appointed general claim agent in charge of all claim matters for the St. Louis-San Francisco Railway, and the offices of the claim department have been transferred from St. Louis to Springfield, Mo.

Don B. Fellows of Springfield, an expert horticulturist, has been appointed florist for the railway and he will have charge of beautification of station grounds. Work of this nature is to be done at Columbus, Miss.; Aliceville, Ala.; Demopolis, Ala., and Linden, Ala.

The Southern Pacific Railroad reports net operating income for 1927 at \$52,604,068, or \$4,192,648 less than for 1926, the month of December, 1927, contributing \$3,617,952, a decrease of \$808,869 from the previous year.

TEXTILE

\$1,500,000 Contract on First Unit of Big Rayon Plant—Five Units and Ultimate Expenditure of \$50,000,000 Planned.

Elizabethton, Tenn., January 25—[Special.]—The Hughes-Foulkrod Company of Pittsburgh and Philadelphia has been awarded general contract for the American Glanzstoff Corporation's first plant unit now under construction in Happy Valley for the manufacture of commercial rayon. It is understood that the amount of the contract is approximately \$1,500,000. The Hughes-Foulkrod Company handled the main contract on the first unit of the American Bemberg plant, which adjoins the Glanzstoff site, and minor contracts on the second unit of this plant, besides initial work on the Glanzstoff plant. Coincident with the award of contract, work was started on the new boulevard from Johnson City to the plants which cuts the distance from 6 to 3.5 miles.

As previously reported, contract was awarded to B. G. Young, Johnson City, for grading and excavation for the first unit of the Glanzstoff plant, while the Hughes-Foulkrod Company was awarded contract for concrete foundation and the McClintic-Marshall Company, Pittsburgh, contract for 2900 tons of steel. Lockwood, Greene & Co., Inc., New York, are the engineers.

The American Glanzstoff Corporation was organized with an authorized capital stock of \$37,000,000 and an initial capital of \$7,000,000. Its plans call for the construction of five units, involving an ultimate expenditure of about \$50,000,000.

Sub-Contracts on Appleton Weave Building.

Anderson, S. C.—Potter & Shackelford, Inc., of Greenville, S. C., general contractors for the erection of a weave building at Anderson, S. C., for the Appleton Manufacturing Company, have awarded the following sub-contracts:

Cast iron pipe—American Cast Iron Pipe Company, Birmingham, Alabama.
Roofing—North State Roofing Company, Greensboro.
Steel sash—Detroit Steel Products Company, Detroit, Mich.
Structural steel—F. E. Gollan Company, Atlanta, Ga.
Treating roof plank—Piedmont Wood Preserving Company, Augusta, Ga.

Upon completion of the building, 30,000 spindles and 750 looms will be installed, adding to the present equipment of 30,468 spindles and 942 looms. The existing plant manufactures canton flannels and cotton dress goods. J. E. Sirrine & Co., Greenville, are engineers for the addition.

Hosiery Mills Merge.

Athens, Tenn.—Directors of the Chilhowee Mills Company and the Fashion Mill, both operating here, will consolidate the two enterprises and erect a new mill. The merged company will have a capital stock of \$225,000, including a new issue of \$65,000 of common and \$50,000 of preferred stock. A committee has been appointed with H. A. Vestal, chairman, to select site and supervise construction of the building. Mr. Vestal will also purchase machinery for making full-fashion hosiery. Circle-knit hosiery will also be produced and the manufacture of men's hose continued.

\$150,000 Plush Mill Completed.

The Southern Pyle Fabric Company has completed its \$150,000 plush mill at Greenville, S. C., and expects soon to put it in operation. The plant is 162 by 99 feet, one story, of mill construction, with steel beams carrying the first floor and timbers carrying the roof and monitor. The Gallivan Con-

struction Company, Greenville, general contractor, advises the following sub-contracts were awarded:

Cast iron columns—American Cast Iron Pipe Company, Birmingham, Ala.
Sprinklers—Grinnell Company, North Charlotte, N. C.
Steel—Greenville (S. C.) Steel & Foundry Company.
Steel sash—Detroit Steel Products Company, Detroit, Mich.
Tar and gravel roof—Ramseur-Lee Roofing Company, Greenville, South Carolina.

To Convert Plant and Add Weave Shed.

Woodruff, S. C.—The proposed increase in the capital stock of Mills Mill is to pay a portion of the cost for an addition made to its No. 2 plant here and converting this plant from a spinning to a weaving mill. The company is reorganizing its capitalization, retiring its present stock. There will be \$1,000,000 worth of preferred stock issued and outstanding and \$650,000 worth of common stock. Additional funds needed for the completion of the plant will be taken from surplus.

The new addition consists of a two-story building and a one-story weave shed, for which Lockwood, Greene & Co., Greenville, are the engineers, and T. C. Thompson & Bros., Charlotte, N. C., general contractors. A humidifying system was installed by the Parks-Cramer Company, Charlotte; fire protection by the Grinnell Company, Inc., Providence, R. I., and Charlotte; electric equipment by the Allis-Chalmers Manufacturing Company, Milwaukee, Wis.; looms by the Draper Corporation, Hopedale, Mass., and spinning machinery by the Whitin Machine Works, Whitinsville, Mass.

Sub-Contracts Let on Chiquola Mill Extension.

Honea Path, S. C.—Sub-contracts on the extension to the mill here of the Chiquola Manufacturing Company have been awarded as follows:

Cast iron columns—American Cast Iron Pipe Company, Birmingham, Ala.
Roofing—J. A. Piper Roofing Company, Greenville, S. C.
Steel sash—David Lupton's Sons Construction Company, Atlanta, Georgia.
Structural steel—Greenville (S. C.) Steel & Foundry Company.

The extension will be 131.4 by 130 feet, 4 stories, to house 5000 additional spindles. J. E. Sirrine & Co. are the engineers and the Gallivan Construction Company, general contractors, both of Greenville.

Sub-Contracts on Renfrew Mill.

Travelers Rest, S. C.—The Gallivan Construction Company of Greenville, S. C., general contractors for the erection of the new Renfrew mill here, announce the following sub-contracts:

Cast iron columns—Paul Wright & Company, Birmingham, Ala.
Plumbing—F. W. Smith Plumbing Company, Greenville.
Roofing—J. A. Piper Roofing Company, Greenville.
Steel sash—The W. M. Bailey Company, Springfield, Ohio.
Structural steel—F. E. Gollan Company, Atlanta, Ga.

This mill for weaving, bleaching and dyeing is being built by the Woodward-Baldwin interests and will be operated by A. W. Smith and G. E. Hatch of the Brandon Mills, Greenville. J. E. Sirrine & Co. of Greenville are the engineers.

Will Make Quilts, Bed Spreads and Mattresses.

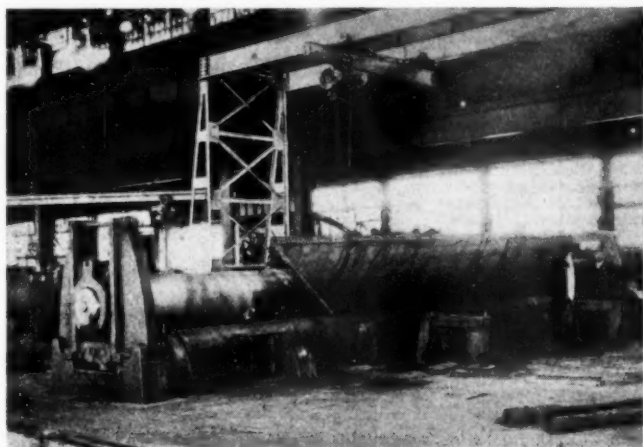
Columbia, Tenn.—The Whatley Quilt and Mattress Manufacturing Company, capital \$15,000, has organized here to manufacture quilts, bed spreads and mattresses. O. W. Whatley is president and manager; J. J. Underwood, vice-president, and D. M. Myers, secretary and treasurer. The company has remodeled a brick building, 40 by 80 feet, three stories, and will use electrically driven machinery, employing 35 operatives.

NEW AND IMPROVED EQUIPMENT

A Six-Foot Extension Added to Big Plate Rolls.

A very unusual job was successfully accomplished when a set of 34-foot plate rolls, at the plant of the General American Tank Car Corporation, in Chicago, were lengthened to 40 feet. The original machine, a Ryerson-Kling bending roll, had a capacity of 34 feet 2 inches by $\frac{3}{4}$ -inch, with an upper roll 29 inches in diameter and two 20-inch lower rolls. It had been in service since its installation in 1919.

In making the addition it was necessary to dismount the rollers, extend the base and move out the rear housing. The



SHOWING ROLLS WHICH WERE EXTENDED.

six-foot extensions, made of Mayari iron, were slipped over the journals and welded along the circumference of the joints. Additional center support was furnished and placed at the joints of the lower rollers. The picture shows the completed job in use.

A subsequent order calling for the rolling of 200 $\frac{1}{2}$ -inch by 8 feet by 38 feet plates to a 34-inch radius paid for the entire extension and netted a substantial profit as well. If they had not been able to enlarge their rolls it would have been necessary to buy the plates, fabricate them, ship them to Pittsburgh for rolling and re-ship to East Chicago, Indiana, at fabricated steel rates.

The work was done by Joseph T. Ryerson & Son, Inc., of Chicago.

New Lock for Freight Car Doors.

In the accompanying illustration is shown a new device for locking the doors of freight cars which is known as the "Stay-Tite Car Lock." It was invented by James A. Hicks, who is vice-president and general manager of the Automatic Car Lock Company, Candler Building, Atlanta, Ga., which manufactures the new lock. A freight car equipped with the invention is on exhibition in Atlanta, and another similarly equipped is at the Ross-Meehan Foundries, Chattanooga, Tenn. This car lock is operated thus:

The lever arm, indicated by number "6", is used for opening or closing the door. It is attached to what amounts to a circular jacking apparatus. To close the door the lever arm is pulled downward in the direction indicated by the arrow "B" until it is in the position shown. The swinging latch "7" drops down and holds the door in the closed position. No amount of rough handling in transit will cause the doors to work open, it is stated.

To open the door the lever arm is pulled upward, in the di-

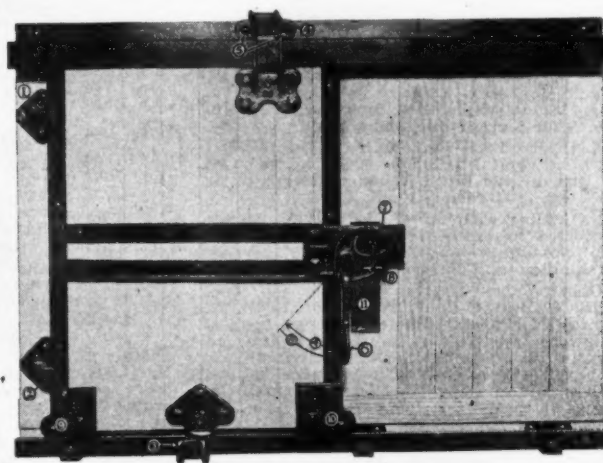
rection indicated by arrow "B", the circular jacking apparatus exerting a powerful leverage which forces the door open. In cases where tonnage is loaded against the door, after removal of the tonnage the door will be found undamaged and it will open easily.

Note the cams shown in the illustration by the numbers 1, 2, 3 and 4. Cams 3 and 4, at top and bottom of the door, take up by friction the force of the door as it is driven shut. The result is that they pull the door tightly against its landing, making the door waterproof, and check its closing sufficiently to prevent damage being done to the end cams—1 and 2—which hold the door close against its landing at that point.

The top and bottom cams (3 and 4), together with the two braces across the center of the door effectually prevent the door from bulging and being forced off its tracks.

This car lock is manufactured for both single and double-walled cars, the illustration representing an installation on a double-walled car. It is so designed that it is interchangeable for right and left hand sides of the doors, no additional parts being needed to make the change.

Mr. Hicks, the inventor, was for many years in the motive power department of several well-known railroads. He has



DOORS EQUIPPED WITH NEW LOCK.

also worked out an application of this device, with automatic locking features, to prevent opening of the car except by the proper persons. The car lock described is separate from the automatic theft-proof lock, and the latter is optional as extra equipment.

\$2,000,000 Machinery Installation for Sulphur Mining.

Richmond, Texas.—The Sun Oil Company, Houston, it is reported, plans to install \$2,000,000 worth of equipment for mining sulphur on Boling Dome, the plant to be completed by the end of 1928. Benjamin Andrews of Kansas City, Mo., will be chief engineer in charge of operations. The company owns 328 acres on which three test holes have been drilled locating a sulphur deposit estimated from 2,000,000 to 10,000,000 tons. It is now drilling seven other wells to core the deposit and make further exploration. A town for employees will be established.

Durham County Commissioners, Durham, N. C., sold \$160,000 funding and \$66,000 road bonds, $4\frac{1}{4}$ per cent interest rate, to the Fidelity Bank, Durham, at \$226,223.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Ala., Huntsville—W. H. Canterberry, R. L. Denham and associates, interested in establishing airport.

Ark., Little Rock—Aviation Committee of Little Rock Chamber of Commerce, interested in construction \$150,000 municipal airport.

Ark., Texarkana—City votes Feb. 14 on \$35,000 bonds for municipal airport. See Financial News—Bond Issue Proposed. 12-29

Fla., Pensacola—Bureau of Yards and Docks, Navy Dept., Washington, D. C., will build motor test building at naval air station, 1 story, 161x25 ft., receives bids Feb. 8. See Want Section—Bids Asked.

Fla., Polk City—City, reported, contemplates building municipal airport, etc. Address City Clerk.

Fla., Tampa—V. E. Chenea, Traffic Mgr., Pan-American Airways, Key West, reported, plans establishing terminal at Davis Island when passenger service is extended to Tampa.

La., Monroe—Theo. F. Terzia, Pres., Ouachita Parish Police Jury, receives bids Feb. 8 for hangar at Selman Field. 1-5

N. C., Raleigh—Reynolds Aviation of North Carolina, capital \$100,000, incorporated; Geo. W. Orr, Realty Bldg., Winston-Salem; Stratton Coyner, Garden City, N. C. 8-11

N. C., Rocky Mount—L. L. Cravely, Mayor, interested in establishing municipal airport, also possibility of airmail route between Washington and Jacksonville. 8-11

Okla., Tulsa—Spartan Aircraft Co., Inc., Willis C. Brown, Pres., 2240 S. St. Louis St., capital \$1,000,000, chartered under laws of Delaware, reported, establish office and factory in Tulsa; plans schools of instruction in flying; install machinery to manufacture propellers, and airplane accessories; Spartan Co., successor to Mid-Continent Air Craft Co., 915 Wheeling St.

Tex., Big Springs—Chamber of Commerce, reported, interested in developing 125-acre site for airport.

Va., Hopewell—Wachovia Land Co., Inc., E. S. Ryan, Pres., will develop 20-acre site, flying field.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Mobile—Mobile Bay Bridge Co., John T. Cochrane, Pres., Meahr Bldg., considering plans for paved surface on causeway sections of Mobile Bay Bridge. 2-18-26

Arkansas—State Highway Comm. receives bids for 7 bridges. See Roads, Streets, Paving.

Ark., Texarkana—City plans 3 bridges. See Roads, Streets, Paving.

Fla., DeFuniak Springs—Town, J. F. Howell, Clk., reported, plans underpass at railroad crossing at Fifth St.

Fla., Jacksonville—Jacksonville Terminal Co., reported, prepared plans for proposed viaduct at intersection of company tracks at Beaver St.

Fla., Miami—City, Welton A. Snow, Mgr., plans bridge over Miami River at S. E. Second St., with approaches on north and south sides; \$459,170 available.

Ky., Carrollton—Stranahan, Harris & Oatis, Inc., Toledo, Ohio, reported, purchased 1825-ft. Carrollton and Prestonville Bridge over Kentucky River at \$197,500; James H. Newman, Pres. of new company; wooden and earth approaches; 465-ft. wooden approach on Carrollton end; 345-ft. approach on Prestonville end; 550-ft. steel work, consisting of 300-ft. main span, two 75-ft. each, end spans, 100-ft. steel trestle work; main span 50 ft. high from center of piers.

La., Franklin—St. Mary Parish Police Jury

plans \$20,000 bridge. See Financial News—Bond Issues Proposed.

La., New Orleans—Allen S. Hackett, Consol. Engr., 505 Whitney Central Bldg., advises regarding proposed 1600-ft Hero-Hackett Bridge over Mississippi River, connecting New Orleans and Gretna; Federal Securities Corp., and H. M. Byllesby & Co., Inc., 231 S. LaSalle St., Chicago, Ill., have agreed to finance Hero-Hackett Bridge; application has been filed with War Dept., Washington, D. C., for Federal permit; progress of project depends upon requirements of this permit and developments derived from further traffic studies. 8-4

La., Shreveport—City, L. E. Thomas, Mayor, receives bids Feb. 28 for reinforced concrete and steel girder type viaduct along Market St., between Franklin and Sixth; 20,000 lin. ft. concrete piling, 80,000 lb. reinforced steel footings, etc., 900,000 lb. steel girder spans, 4,400 cu. yd. Embankment north approach, 12,000 cu. yd. embankment south approach; plans from Harrington, Howard & Ash, Consol. Engrs., 1012 Baltimore Ave., Kansas City, or H. E. Barnes, City Engr.

Miss., Gulfport—Harrison County Board of Supvrs., considering completing bridge over Biloxi Bay, between Biloxi and Ocean Springs, Harrison and Jackson Counties; Harrison County approach to bridge at East Howard Ave. 12-22

Missouri—State of Missouri receives bids for 29 bridges. See Roads, Streets, Paving.

North Carolina—State of North Carolina received low bid for bridge, overpass, approach and underpass paving. See Roads, Streets, Paving.

N. C., Currituck—Currituck and Dare Bridge Corp., incorporated; L. C. Blades, M. B. Sawyer, S. B. Parker, all Elizabeth City; construct, operate and maintain toll bridge.

N. C., Wilmington—State Highway Comm., Frank Page, Chmn., Raleigh, may let contract in Mar. for bridges over Cape Fear and North East Rivers, connecting with Highway No. 20, extending from mountain to sea; cost about \$1,250,000; W. A. McGirt, Dist. Commr. 10-6

Okla., Newkirk—Kay County Commrs., Bernice Schoonover, County Clk., receive bids Feb. 3 for 5 concrete culverts, repair and extend 6 concrete culverts, construct 1 stone masonry culvert, on Ponca-Blackwell Highway; plans from J. S. Clark, County Engr.

S. C., Spartanburg—See Roads, Streets, Paving.

Tenn., Knoxville—City Mgr. Roehl, considering concrete viaduct from intersection of Broadway and Vine Ave., to Ramsey Ave.; eliminate Western avenue crossing over Southern Ry. tracks.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, plans bridge over Brazos River at Chappell Hill. 12-29

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, plans receiving bids for 2 bridges over Cibola Creek: On Highway No. 81, near Sulphur Springs; on Highway No. 3, between San Antonio and Seguin; Gibb Gilchrist, State Highway Engr.; George Wickline, State Bridge Engr.

Tex., Fort Worth—State Highway Comm., R. S. Sterling, Chmn., Austin, plans letting contracts in Feb. for 2 bridges over Rush and Village Creeks, on Fort Worth-Dallas Highway; Gibb Gilchrist, State Highway Engr.

Tex., Hempstead—State Highway Comm., R. S. Sterling, Chmn., Austin, may receive bids in Mar. for Brazos River Bridge near Hempstead, Waller County, on Houston-Austin Highway; Gibb Gilchrist, State Highway Engr.; rejected bids opened Jan. 17. 1-5

Tex., Houston—City, W. A. Moore, Sec., plans 2 concrete bridges over Brays Bayou,

cost about \$20,000 each; on Lidstone St., near Kensington Hall; on Forest Hill Drive; each 20-ft. wide, one sidewalk; J. C. McVea, City Engr.

Tex., Palo Pinto—Palo Pinto County plans 2 bridges and several culverts. See Roads, Streets, Paving.

Tex., Victoria—Brammer & Wilder, Houston, applied to Lieut.-Col. J. L. Schley, U. S. Army Engr., Galveston, for permit to construct railroad bridge across Guadalupe River, Victoria, 1/8 mi. below Southern Pacific R. R. Bridge.

W. Va., Clarksburg—See Roads, Streets, Paving.

Contracts Awarded

Tex., Austin—City, Adam R. Johnson, Mgr., let contract to H. B. West, Georgetown, for reinforced concrete culvert at Thirty-third and Grooms St.; Orin E. Metcalfe, City Engr. 1-19

Canning and Packing Plants

Miss., Saitillo—Saitillo Canning Co., incorporated; H. Barrett, T. A. Wesson, W. J. Sandlin; establish canning plant.

Clayworking Plants

Miss., Clarksdale—Board of Directors of Chamber of Commerce, reported, negotiating with Virginia capitalists for establishment of plant, daily capacity 25,000 face brick.

Mo., Mexico—A. P. Green Fire Brick Co., reported, install brick kiln, cost \$250,000; capacity 30,000 fire brick.

Tex., Amarillo—Amarillo Clay Products Co., Inc., reorganized with W. H. Stinger, Pres., W. A. Fowler, Sec., 115 W. Sixth St.; reported construct deep water well; construction on plant to begin as soon as water plant is completed.

Coal Mines and Coke Ovens

N. C., Charlotte—Royal Coal & Coke Co., capital \$500,000, incorporated; J. L. Rollomon, H. D. Kendall, 625 Hawthorne Lane, W. R. Ridenhour.

Tennessee—See Iron and Steel Plants.

W. Virginia—The Wood-Sullivan Coal Co., Pickshin Coal Co., Tommy Creek Coal Co. and Raleigh Fire Creek Coal Co., all companies Raleigh County, of Sullivan Pochantons Coal Co., Tralee, reported, acquired by Geo. W. Hinkley, of Marshall-Wells & Hinkley, New York City; will operate; probably the Sullivan properties which are now being sold in Raleigh, Wyoming and McDowell Counties will be consolidated with other holdings which G. W. Hinkley represents and new company will be known as Comango Smokeless Fuel Co.; Howard N. Eavenson, Union Trust Bldg., Pittsburgh, Pa., Gen. Mgr. of operations; Carey-Mann-George Corp., sales Agents.

W. Va., Clarksburg—Elk Sewell Coal Co., Truman J. Lynch, Pres., 804 Goff Bldg., advises: Company leased the property to C. H. Hunphreys, 614 E. Park Ave., Fairmont, W. Va., who expects to interest other parties who are to operate the mines; by the term of lease a plant is to be installed and mining is to begin by May 1, 1928; coal lies on Elk River, Webster County, on Centralia and Elk R. R. 1-26

Concrete and Cement Plants

Texas—Coy Burnett of San Diego, Cal., and Fred C. Robertson, Los Angeles, reported, plan building cement plant on Harbor Island, located near deep water port of Ingleside, Tex.; daily capacity 1800 bbls.; construction to begin about July 25, 1928.

Tex., Houston—Camp Logan Cement Works incorporated; Louis Michka, 1308 N. Cohn St.; Elsie Michka, Little Singletary.

Cottonseed-Oil Mills

Tex., Corpus Christi—Travis Cottonseed Products Co., Oscar Robinson, Gen. Mgr., 303 E. Fifth St., Austin, reported, construct \$200,000 cottonseed oil mill on 10 acre tract, capacity 120 tons every 24 hours; will erect 4 buildings; concrete mill house, cost \$40,000; meal storage house, \$10,000; seedhouse, \$20,000; hull house and office, \$10,000; company wires: "Will build 6 press plant, main building 260x80 ft., reinforced concrete; necessary additional seed and hull houses."

Cotton Compresses and Gins

Ark., Wilmet—W. B. deYampert, will begin construction in April on cotton compress plant, daily output 50 bales; 40x70 ft.; iron clad frame building; concrete floors; iron roof. See Want Section—Machinery and Supplies.

N. C., Wise—Wise Gin Co., capital \$40,000, incorporated; Edmund White, T. J. Holt, Warrenton.

Tex., Corpus Christi—Aransas Compress Co., will call for bids in about 10 days on addition; 350,000 sq. ft. floor space; cost \$400,000; install high density press-2 boilers; Hardy & Curran, Architects, Nixon Bldg., reported, let contract to Hedges Roofing Co., 1910 Rannels St., Houston, for grading site, limestone fill and for topping floor; E. A. Whitney & Son, Kansas City, Mo., contract for driving piling.

Tex., Denton—Hunt Brothers, reported, rebuild burned gin; install electric operated machinery.

Tex., Lubbock—Texas Technological College, Dean A. H. Leidigh, reported, plans installing cotton gin with modern ginning equipment, cleaning machinery, etc.

Drainage, Dredging and Irrigation

Arkansas—Kochtititsky Ditching Co., Cape Girardeau, Mo., reported, has contract for cutting Swan Pond Ditch, cost about \$15,000; also to deepen, widen and cut new laterals for Village Creek ditch in Randolph County, cost \$25,000.

Fla., Bradenton—Cedar Hammock Drainage Dist. Supvrs., Huber Blakey, Sec., Bradenton Bank Bldg., construct drainage work in Manatee County; receives bids Feb. 25; Frank K. Webb and Associate, Engrs.

Fla., Miami—Waldeck-Deal Dredging Co., 832 N. W. 12th St., reported, authorized to dredge new slip along west side county causeway, 18 ft. deep, 150 ft. wide.

La., Ville Platte—Ville Platte Gravity Drainage Dist., reported, plans improvements in drainage district. See Financial News—Bond Issue Proposed.

N. C., Lumberton—Robeson County Drainage Dist. No. 2, R. H. Livermore, Chmn. of Board, Pembroke, N. C., will construct system drainage canals, including all structures incident thereto; receives bids Feb. 15; F. F. Wetmore, Engr., Lumberton. See Want Section—Bids Asked.

Tex., Marlin—The Marlin Grocery Co. has permit to divert water from Brazos river to irrigate about 500 acres for farming; Thompson & Mitch, Engrs. and Contrs., Marlin 1-26

Va., Norfolk—Additional appropriation of \$300,000 to be used for continuing the dredging projects in Norfolk harbor and in Albemarle and Chesapeake canal between Norfolk and Beaufort, reported, available; Col. H. C. Jewett, U. S. Army, Dist. Engr.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Arkansas—I. B. Tigrett & Co., Memphis and Little Rock, are offering \$250,000 first mortgage serial gold bonds of Wilson Power & Light Co.; company under direct supervision of R. E. Lee Wilson, incorporated under laws of Arkansas; owns and operates electric power and light distribution system in North-eastern Arkansas; supplies power and light to towns of Wilson, Tyrone, Marked Tree, Stacy, Gilmore, Marie, Joiner and adjoining territory; also owns ice plant at Wilson, with branch at Tyrone and flour mill at Wilson.

Ark., Little Rock—Arkansas Light & Power Co., reported, extend lighting system.

Ark., Mountain View—John F. Brewer, will erect addition to electric plant; frame and wood; concrete floors; sheet iron roof; install engines, generator, switch board, etc. See Want Section—Machinery and Supplies.

Fla., Sarasota—Florida Power and Light

Co., Miami, reported, expend \$15,000 for street light extensions and improvements.

Georgia—B. H. Hardaway, Columbus; J. Smith Lanier, West Point, reported, applied to Federal Power Comm., Washington, for permit to construct dams across Chattahoochee River in Chambers County, Ala., and Troup and Heard Counties, Ga.; power project of 30,000 kw. contemplated; afford transportation to town of Franklin.

Ga., Alma—Southeast Georgia Power Co., Douglas, will install 175 h.p. Diesel engine; equipment purchased.

Ga., Cordele—Crisp County Comms., selected J. E. Sirrine & Co., Greenville, S. C., as consulting engineers for Flint River Power project; E. S. Killebrew, Albany, is engineer; cost \$1,250,000; J. E. Sirrine & Co. now checking plans and other data. 1-8-27

Ga., Moultrie—W. B. Foshay Co., Foshay Bldg., Minneapolis, Minn., lately acquired Baker County Power Co., reported, construct steam auxiliary plant. Foshay & Co., advises: "Plans are not complete in this connection, if decision is made to install plant for this property; it will be a Diesel engine and not a steam plant."

Kentucky—Hoagland, Allum & Co., Inc., New York; Bartlett & Gordon, Inc., J. A. Ritchie & Co., Inc., are offering \$1,200,000 first lien gold bonds, 6% Series of 1927, Federal Public Service Corp.; company incorporated under laws of Delaware owns capital stock of Federal Public Utilities Co. of Kentucky and Southeastern Kentucky Utilities Co., etc.; proceeds to be used to liquidate in part indebtedness incurred in connection with acquisition of securities pledged under this issue and for general corporate purposes.

Ky., Augusta—United Public Service Co., 100 W. Monroe St., Chicago, Ill., reported, acquired controlling interest in Kentucky Power Co., and Maysville Public Service Corp. and their subsidiaries.

La., Haynesville—Louisiana Power and Light Co., 2 Rector St., New York, reported, soon begin construction of high line from Magnolia to Haynesville; have finished survey.

Maryland—Dreamland-on-the-Bay, Love Point, C. W. Elrod, Gen. Mgr., reported, applied to Queen Annes County Comms., Centerville, for franchise to supply light and power to Stevensville, Chester and Grasonville from plant to be constructed at Love Point.

Mississippi—Central States Power and Light Co., Davenport, Ia., reported, acquired Waynesboro Ice and Light plant, and light and ice plant in Lucedale, Leaksville, New Augusta and Brandon, Miss., and Citronelle, Ala.

Missouri—Jess Priest and W. H. Williams, Poplar Bluff, reported, considering construction of dam 60 ft. high across Eleven Point River, in Oregon county, creating reservoir of 20,000 acre ft.

Mo., Jefferson City—City, reported, votes Feb. 7 on granting 10-yr. franchise to Missouri Power & Light Co., 228 Madison St. Address The Mayor.

Mo., Joplin—Joplin Realty Co., F. P. Giltner, 726 Hampton Pl., reported, interested in installation of white way on Main St.

Mo., Marshall—Municipal Utilities, reported, applied to State Public Service Comm., Jefferson City, for permission to construct and operate electric transmission line.

Mo., St. Louis—Board of Public Service receives bids Feb. 21 for installing forced draft fans, etc. See Want Section—Bids Asked.

Mo., St. Louis—Board of Public Service received bids Feb. 14 for furnishing materials, labor, etc., for installing single unit Zeolite water softener, deaerating feed water heater and vent condenser with integral V notch meter and cast iron surge tank, to be installed in Municipal Service Bldg., 11th and Spruce St.

Mo., St. Louis—City, reported, interested in installation of white way system in downtown section; \$2,250,000 appropriation applied for.

N. C., Statesville—Sterling Light and Power Co., capital \$28,000, incorporated; C. A. Sherrill, L. N. Summers.

Okla., Bartlesville—Samuel Insull & Sons, Inc., 72 W. Adams St., Chicago, Ill., reported, acquired electric properties of Bartlesville Gas & Electric Co., in Bartlesville and Dewey; will be interconnected with super-power system of northern and eastern Oklahoma.

Okla., Blackwell—City Comms., reported, will purchase \$32,000 worth of new equipment for power plant.

Okla., Grove—Public Service Co. of Oklahoma, 510 S. Boston St., Tulsa, acquired water, ice and light system; are building transmission line from Afton, 11,000 volt, to serve

city of Grove; will repair ice plant and make general repairs to equipment. 1-19

Texas—Borderland Utilities Co., Balmorhea, S. C. Johnson, Pres., Fort Stockton, reported, let contracts for light plants to be installed at Marathon, Balmorhea and Blackwell; install 360 h. p. engine at Presidio.

Texas—Gulf States Utilities Co., J. G. Holtzclaw, V. P., Beaumont, reported, plans improvements to power plant and lines at Beaumont, Orange, Hull, Jasper, Port Arthur, also rebuilding ice plants at Orange and Port Arthur; constructing sub-station at Beaumont; increase generating capacity of plant at Lake Charles, La. 1-19

Tex., Houston—Houston Lighting and Power Co., reported, has plans for \$250,000 sub-station on Richmond Rd.

Tex., Houston—Beard & Stone Electric Co., 1302 San Jacinta St., increased capital \$50,000 to \$100,000.

Tex., New Braunfels—San Antonio Public Service Co., Col. W. B. Tuttle, Pres., reported, let contract to U. G. I. Contracting Co., Philadelphia, Pa., for \$1,500,000 addition to Comal Power Co.'s plant; install 45,000 h.p. steam turbine. 1-12

Tex., Palestine—City, reported, install white way system on courthouse square. Address The Mayor.

Tex., Quanah—West Texas Utilities Co., Abilene, subsidiary of Central and Southwest Utilities Co., 1100 Allen Bldg., Dallas, let contract for building 20,000 h.p. electric generating unit at Lake Pauline, near Quanah, to Robert McKee, of Abilene, 1916 Texas St., El Paso and Los Angeles, Cal., for about \$250,000, including \$50,000 structural steel to be furnished by Mosher Steel and Machinery Co., 900 S. Austin St., Dallas; half mile of flume work, requiring 46,000 yds. excavation and also excavation for building awarded to J. Lee Vilbig & Co., 2517 Eakin St., Dallas; R. V. Stroup Co., contracted to repair dam with 5000 yds. earth and place 4000 yds. riprap; Moore & Moore to furnish 4000 yds. ballast for 3 mile rail line from Fort Worth and Denver being built by Stroup Co. 1-26

Tex., Sweetwater—Board of City Development and Texas Electric Service Co., reported, interested in installing white way system on 49 blocks.

Virginia—Virginia Public Service Co., Charlottesville, Va.; 165 Broadway, New York; applied to Federal Power Comm., Washington, D. C., for permission to construct transmission line within Natural Bridge National Forest, Bedford and Amherst Counties, by which power will be conveyed from Alta Vista to Balcony Falls.

Flour, Feed and Meal Mills

Tex., Killeen—Wendland Grain Co., Temple, will probably install shelling plant.

Foundry and Machine Plants

Ga., Tallapoosa—Remodeling of building and laying of side track soon begin for proposed \$100,000 plant of Georgia Steel & Iron Co., reported; manufacture horseshoes, plate steel, etc.

Tenn., Memphis—Continental Gin Co., Poplar Ave., reported, plans erecting exhibition and demonstration building on Poplar Ave. opposite present plant, brick, stone trim, steel windows and doors, equip with automatic sprinkler system; estimated cost \$35,000.

Tex., Weslaco—Weslaco Machine Works, capital \$15,000, incorporated; L. L. Crosby, Pres.-Bus. Mgr.; W. O. Simpson, Sec.; established machine shop, installed second-hand machinery, all purchased.

Gas and Oil Enterprises

Ala., Sheffield—North Alabama Utilities Co., Inc., capital \$100,000, chartered; L. P. Kleitz, R. T. Simpson; reported, has franchise in Sheffield and Tusculumbia; has site; will erect \$60,000 gas plant.

Arkansas—Merger agreement, reported, entered into (subject to ratification by stockholders March 6) by directors of Arkansas Natural Gas Co., Benedum-Trees Bldg., Pittsburgh, Pa.; National Gas & Fuel Corp. and Industrial Gas Co. under name of Arkansas Natural Gas Corp., whereby consolidated company will acquire properties and franchises of constituent companies and gas properties of Southwestern Gas & Electric Co., Shreveport, La.; properties will extend from Shreveport, La., to Little Rock, Ark., with branches extending to Pine Bluff, Hot Springs and Texarkana, Ark.; merged company will own approximately 650 miles of trunk pipe line systems, gas compressor stations of 14,000 h.p. and 4 gasoline extraction plants, with daily production of about 20,000 gals. 1-26

Ark., Fort Smith—City Comm., reported, considering granting franchise to Border Gas Co., 207 Belle St. 1-19

La., Monroe—Pace Lake Gas Co., capital \$60,000, incorporated; Abe Arent, 301 Hudson Lane; W. G. Haynes, 615 Cypress St.

La., Shreveport—Natural Gas Production Co., Inc., capital \$300,000, chartered; A. L. Waller, City Bank Bldg.; H. H. Alvord, Jr., 2179 Highland St.

La., Shreveport—A. B. M. Oil Co., capital \$10,000, incorporated; J. L. Anderson, J. R. Browder.

La., Shreveport—Bond Department, City Savings Bank & Trust Co. are offering \$600,000 first (closed) mortgage 5 year 6% sinking fund bonds of Shreveport-El Dorado Pipe Line Co., Inc.; company owns pipe line system of about 180 miles, connecting oil refineries at Shreveport, La., with oil fields at El Dorado and Smackover, Ark., and Home, La.; proceeds to be used to redeem all of issue of 7½% bonds now outstanding, pay for further extensions and additions and provide additional working capital. 12-22

Md., Baltimore—Durham Gas Co. incorporated; Leslie E. Mihm, 12 Elmwood Ave.; Huntington Cairns, Calvert Bldg.

Miss., Aberdeen—Natural Gas and Fuel Corp., El Dorado, Ark., advises, do not contemplate any construction work under franchise recently granted, for 6 months. 1-19

Miss., Biloxi—J. O. Mack, Monroe, La., and R. E. Collins, Houston, Tex., reported, plans constructing natural gas pipe line to Mississippi coast.

Mo., St. Louis—Cabin Creek Oil Co., incorporated; A. A. McHenry, Alfred H. Steffins.

N. C., Asheville—Carolina Power & Light Co., Raleigh, reported, expend \$150,000 for gas main extensions.

Okla., Bartlesville—Swann Gas Co., incorporated; O. A. Kraer, L. A. Rowland, T. D. Talbott.

Okla., Blackwell—Farmers Benefit Oil and Gas Co., capital \$25,000, incorporated; G. B. Thompson, Glenn Watts.

Okla., Bristow—Barnsdall Oil Co., Petroleum Bldg., Tulsa, reported, acquired Wolfe Oil Corp., including oil lands in Pottawatomie, Seminole and Logan counties, Okla.; Winkler county, Tex.

Okla., Oklahoma City—Public Petroleum Corp. incorporated; W. C. Long, 400 N. Douglas St.; Joe Stephens.

Okla., Tulsa—Ce-Pe Oil Co., capital \$20,000, incorporated; R. M. Collins, 1331 South Denver St.; Randolph Shirk, Cosden Bldg.

Okla., Tulsa—Coral Oil Co., capital \$50,000, incorporated; Hector Crandall, Kennedy Bldg.; J. H. Wiggins.

Okla., Tulsa—Royalty Corp., capital \$2,600,000, incorporated; Virgil Hicks, Mid-Continental Bldg.; E. C. Love, H. I. Shanks; company succeeds the Atlas Royalties Co.

Tex., Alvin—Houston Natural Gas Co., Petroleum Bldg., Houston, reported, plans installation of natural gas system; applied for franchise.

Tex., Amarillo—East Plains Gas Co., Amarillo, reported, having preliminary work done by J. R. Cook, for pipe line from Panhandle fields to Kansas; recently acquired franchises in Perryton, Spearman, Guymon, Texhoma and other Texas and Oklahoma points. 1-26

Tex., Amarillo—East Plains Co., reported, construct 63 mile pipe line to Perryton, Spearman and other towns.

Tex., Dallas—Lone Star Gas Co., 1915 Wood St., let contract to The Austin Co., Linz Bldg., for warehouse, garage and meter shop, 2101 Logan St.; Austin Bros., 1815 Combs St., have sub contract for steel.

Tex., El Paso—Pasotex Petroleum Co., subsidiary of Standard Oil Co. of California, San Francisco, will erect refinery, inspection of site being made by W. G. Hamilton; in addition to refinery there will be several other buildings, including cottages for employees; bunk house for workers; first unit will cost \$750,000; surveys made for 250-mile pipe line for shipment of crude oil from company's West Texas fields; capacity of refinery 10,000 bbl. daily; ultimate cost \$13,000,000. 1-26

Tex., Jefferson—G. H. Beach and George Bussart, Wichita, Kansas, and P. T. Hussey, Jefferson, reported, organized company; acquired franchises from various towns from Waskom to point near Sulphur Springs; will supply gas to Jefferson, Daingerfield, Hughes Springs, Avinger, Pittsburg, Gilmer, etc.

Tex., Mount Pleasant—City, reported, granted gas franchise to G. H. Beach of Wichita, Kan.

Tex., Port Arthur—Transcontinental Oil Co., J. W. Waggoner Bldg., Fort Worth, reported, considering establishment of oil refinery.

Tex., Uvalde—J. G. Pundt, reported, has 30 yr. natural gas franchise; will construct gas line.

Va., Portsmouth—Portsmouth Gas Co., B. B. Ferguson, Pres., reported, extend gas mains to Highland Park, South Highland and Biltmore.

West Virginia—P. W. Chapman & Co., Inc., 42 Cedar St., New York and 115 W. Adams St., Chicago, Ill., are offering \$1,800,000 first mortgage 6½% sinking fund gold bonds (closed mortgage), with stock purchase warrants of Ohio Valley Gas Corp.; company incorporated to acquire, own and operate natural gas properties in West Virginia supplying gas under long term contract to Hope Natural Gas Co., and through its subsidiaries, Mid-East Gas Co. and Zane Gas Co.; company and subsidiaries will own 138 miles pipe line, and gas lands in Roane and Jackson counties.

W. Va., Wheeling—Oil Recovery Co., capital \$200,000, incorporated; Ray Davis, 121 14th St.; Bertram C. Stolze, 118 Eginton Lane; Samuel K. Frank.

Ice and Cold-Storage Plants

Ark., Jonesboro—Jonesboro Ice Co., J. F. Mason, Pres., let contract to Burton & Ballew, Jonesboro, to convert old building into cash and carry station; install refrigerating equipment machine, etc.; daily output 80 tons; work under way and bids received.

Fla., Orlando—New Ice Co. incorporated; Annette E. Nye, H. H. Hancock, 703 E. Marks St.

Fla., Port Orange—Daytona Beach Ice Co., North Ave., Daytona Beach, reported, build ice and shrimp storage house on N. Halifax Dr., 23x25-ft., storage capacity 100 bbls.

Fla., St. Petersburg—St. Petersburg Cold Storage Co., reported, expend approximately \$272,800 for construction cold storage warehouse at Third Ave. and Twenty-second St.; 4-story, reinforced concrete, brick facing, with complete cork insulation; contain refrigeration and cooler plants and 550,000 cu. ft. of rental space; John Paul Jones Construction Co., Gen. Contr., 3711 17th Ave., S.; C. C. Whitaker, Bona Allen Bldg., Atlanta, Ga., designing Engr. and Archt.

N. C., Charlotte—City Ice Delivery Co., capital \$50,000, incorporated; A. J. Hagood, 518 Clement Ave., H. M. Da Vega, 1800 E. Morehead St., J. W. Wiggins, 1 Brookside Ave.

Okla., Durant—Oklahoma Gas and Electric Co., Oklahoma City, H. E. Bowen, Mgr., reported, plans improvements to ice plant; replacing all wooden buildings with brick structures.

Tenn., Columbia—Columbia Ice and Cold Storage Co., Harry E. Kleopfer, Mgr., reported, acquired Maury County Ice Co.'s plant.

Tenn., Knoxville—Standard Ice Co., John B. Howe, owner, reported, establish 80-ton capacity ice plant, brick construction, cost approximately \$200,000 to \$250,000; company owns chain of ice factories, one of which is Diamond Ice Co., 717 Cooper St., Knoxville. Diamond Ice Co. wires: "Plans not complete. Waiting on price electric power; if not low enough will install steam plant. Our own engineers will erect plant."

Tex., Austin—Electric Ice Co., capital \$30,000, incorporated; H. A. Nobles, Ross D. Rogers, W. A. Barlow, 806 Congress St.

Tex., Houston—Standard Ice Co., reported, has permit for erection \$20,000 ice plant, Oak Lawn.

Tex., Livingston—Livingston Ice Co., Inc., Box 276, will erect plant addition, concrete, corrugated iron roof, construction by owner; install 120 ice freezing cans, etc., increase daily capacity to 18 tons; equipment furnished by Frick Co., Waynesboro, Pa.; S. F. McDonald, Archt. and Const. Engr. 1-19

Iron and Steel Plants

Ala., Birmingham—Sloss-Sheffield Steel & Iron Co., Hugh Morrow, Pres., American Trust Bldg., reported, plans enlarging No. 1 city furnace at First Ave. viaduct; will dismantle and rebuild along modern lines as No. 2 furnace, expend about \$650,000. Company wires: Planning to begin work on modernizing furnace No. 1 in same manner as we did to our No. 2 furnace last year; work by own forces.

Tennessee—E. P. Rosamond, American Trust Bldg., Birmingham, Ala., and F. K. Rosamond, Fergar Place, Chattanooga, Tenn., reported, purchased Chattanooga furnace (property best known as Chattanooga Iron and Coal Co.; was purchased from Southern States Iron and Coal Co.); includes factory site in Tannery Flats; 15,000 acre coal land in Sequatchie County near Dunlap; 5000 acres ore land in Walker County near Estelle, Ga., and 300 acre rock quarry near Flintstone; factory site in Tannery Flats consists of about 20 acres, equipped with independent pumping and electric plants, etc.; ore land at Estelle equipped with necessary machinery; coal mines equipped with 500 ton capacity coal washer, 200 beehive coke oven, etc.

Tex., Houston—Houston Structural Steel Co., 3910 Washington St., reported, has contract to furnish 145 tons structural steel for addition to warehouse of Peden Iron & Steel Co., 700 N. San Jacinto St.

Land Development

Ala., Birmingham—Lake Shore Estates Co., Inc., capital \$300,000, chartered; George Yancy, 4401 Overlook Rd., D. P. Knapp, 3401 Norwood Blvd., S. E. Russell, 114 S. 61st St.; develop 440 acres sub-division; construct parkway; lake; roads; install water, sanitary sewers.

Ala., Mobile—Junior Chamber of Commerce, reported, interested in development of 35 acre golf course between Spring Hill Ave. and Craft Highway; cost \$60,000; C. P. McIntosh, Golf Archt.; Public Golf Courses, Inc., in charge of development.

Ark., Little Rock—Sun Building and Developing Co., reported, develop 3-acre sub-division in Pulaski Heights; company recently incorporated by W. S. Daniel, W. M. Van Valkenburgh, 320 Sherwood St.

D. C., Washington—Al-Roy Properties, Inc., capital \$100,000, incorporated; Barney Robins, 1001 15th St., N. W., Wm. E. Bryant, 4606 13th St. N. W.

Fla., Cedar Key—Andrews Brothers, Inc., chartered; G. R. Andrews, D. A. Andrews.

Fla., Cocoa—Hopewell Farms, Inc., capital \$20,000, chartered; R. H. Wall, J. E. Haywood.

Fla., Daytona Beach—Longino-Swift, Inc., chartered; B. T. Longino, 408 University Blvd.; George L. Swift.

Fla., DeLand—Bersford Holding Co. incorporated; I. M. Thomas, R. A. Crawford.

Fla., Fort Myers—R. V. Lee, Inc., chartered; R. V. Lee, Rossie C. Lee.

Fla., Fort Myers—Gulf Farms Corp., incorporated; Nathan Cockrell, J. Starnes.

Fla., Haines City—Seminole Palm Co., capital \$50,000, incorporated; L. R. More, C. W. More.

Fla., Intercoastal City—Wile City, Inc., chartered; John Wile, Laura Wile.

Fla., Jacksonville—Springfield Properties, Inc., capital \$10,000, incorporated; T. K. Akra, 109 Home St., South Jacksonville; Louis Moscovitz, 135 N. Bay St.

Fla., Miami—Iola Investment Corp., incorporated; C. W. Van Landingham, 1254 N. W. Sixth St., Edna N. Horn.

Fla., Miami—Kentucky-Miami Realty Co., incorporated; J. E. Holland, R. E. Kunkel, both Congress Bldg.

Fla., Palm Beach—John H. Dayton, Inc., chartered; J. H. Dayton, Edith M. Dayton, Gus Bath.

Fla., Sanford—Southern Bulb Assn., Inc., chartered; F. W. Bender, S. J. Nix.

Fla., Tavares—Midland Citrus Co., capital \$25,000, incorporated; J. H. Thornburgh, L. B. Saffer.

Fla., Valparaiso—The Valparaiso Corp., M. C. Richardson, Sec., has 1,000 acres, will develop 200 acres for golf course, hunting and fishing lodges, docks and landing piers, deep artesian well; 150 room hotel-clubhouse; expend approximately \$433,700; Zimmerman, Saxe & Zimmerman, Chicago, Ill., Archt.; Thompson, Starrett Co., 104 S. Michigan Ave., Chicago, Gen. Contr.; Victor F. Michelson, Map Dept. of City of Chicago, Landscape Archt. 12-22

Fla., Venice—Grace Realty Co., incorporated; J. H. Jones, W. C. Spain.

Fla., Winter Park—Winter Park Ferienles, Inc., chartered; H. Casselberry, Mary E. L. Casselberry.

Ky., Covington—City, reported, develop 5-acre site in Latonia and Rosedale for park. S. J. Vogelsang and Warren Elliston, Committee.

La., Baton Rouge—Citizens Building, Realty & Investment Co., incorporated; Louis M. Johnson, Greenwell Springs Rd., John R. Turnbull, Abraham L. Fleet, Reddy St.

La., Monroe—Citizens Realty Co., Inc., capital \$30,000, chartered; L. N. Larche, 216 Arkansas St.; Lucien Larche.

La., Monroe—Citizens Realty Co., Inc., capital \$30,000, chartered; L. N. Larche, 216 Arkansas St.; Lucien Larche.

La., New Orleans—Gaerthner Realty Co., capital \$15,000, incorporated; John Fitzpatrick, M. T. Guillemain.

La., New Orleans—Webster Realty Co., Inc., capital \$25,000, incorporated; W. K. Nourse, 606 Common St.; G. Kent, 700 Evelina St.

La., New Orleans—Pfeiffer-Robert Co., Inc., capital \$30,000, chartered; Wm. H. Robert, 106 Vincent St.; L. O. Lemarie, 2928 General Pershing St.

La., New Orleans—Riger, Inc., capital \$15,000, chartered; Dominick Marsiglla, 1733 Audubon St.; Bernard Titcher, Jr., 1637 Napoleon Ave.

La., New Orleans—Rhodes & Symmes Realty Investment Co., Inc., capital \$550,000, chartered; J. L. Rhodes, 220 Audobon Blvd., C. W. Army, 2232 Wirth Place.

Md., Annapolis—Annapolis Roads Co., is developing 341 acres beyond mouth of Severn River on Chesapeake Bay, 2½ miles out of Annapolis; Olmsted Brothers, 99 Warren St., Boston, Mass., have done landscaping, road and lot layout; John Russell Pope, 542 Fifth Ave., New York, will be Supervising Archt.; Charles H. Banks, 331 Madison Ave., New York, has designed 18 hole golf course; F. Irwin May is constructing course; will build road, construct pier, install water system, electric light and power, telephone and dredge marshes.

Md., Baltimore—Luthia Real Estate Co., 4402 Springdale Ave., incorporated; Morris Sober, 4402 Springdale Ave.; Rebecca Greenstein.

Md., Baltimore—Stelimer Realty Corp., 2732 Reisterstown Rd., incorporated; Nathan J. Cohen, S. Oliver Cohn.

Md., Baltimore—Glendale Realty Co., 16 E. Fayette St., incorporated; Tighman V. Morgan, 10 E. Fayette St., Francis C. Harwood.

Miss., Lexington—Honey Island Investment Co., capital \$50,000, incorporated; Morris Lewis, A. Jacobson; develop 10,000 acres farming land.

Mo., Festus—Festus Real Estate Co., capital \$40,000, incorporated; W. L. Townsend, F. J. Sewald.

Mo., St. Louis—Federer Realty Co., capital \$50,000, incorporated; Marie K. Federer, 3892 Connecticut St., Robert E. Kurtz, 3646 Wilmington St.

Mo., Trenton—Trenton Masonic Realty Co., capital \$30,000, incorporated; W. W. Alexander, E. A. Duffy, R. V. Denslow.

N. C., Albemarle—Highland Terrace Development Co., capital \$50,000, incorporated; D. A. Holbrook, D. L. Crowell, J. B. Little.

Okla., Oklahoma City—John J. Harden, Inc., 2701 W. 19th St., reported, develop Linwood Addition; install water, sewers, gas, electric lights, grade streets.

S. C., Greenville—Junior Chamber of Commerce, reported, interested in development of golf course in Cleveland Park.

S. C., Mullins—Buck Swamp Farms incorporated; H. A. Carlton, Luther V. Martin.

Tex., Beeville—Roy Fenner, County Surveyor, reported, subdividing 6400 acres for R. Pryor Lucas.

Tex., Coleman—F. B. Lefevre, 807 San Pedro St., San Antonio, reported, develop 320 acres.

Tex., Harlingen—James B. Anderson, Houston, reported, acquired 130 acres in Lower Rio Grande Valley.

Tex., Houston—East Park Realty Co., capital \$15,000, incorporated; Frank E. McCurdy, George L. Edwards.

Tex., Houston—Brays Bayou Development Co., reported, acquired 2200 acres in Bellaire district.

Tex., Pharr—Whitbold Nursery Interests, Chicago, reported, interested in development of subdivision.

Tex., Port Arthur—Gist Realty Co., Adams Bldg., reported, acquired 40 acres on Lewis and Bernhard Rds.; will be developed as Glendale Acres.

Tex., San Antonio—City, reported, will install sanitary sewer mains, water mains and construct sidewalks and curbing in Palm Heights Addition, sub-division of V. W. Mills, Packard Bldg., Philadelphia, Pa.

Tex., San Antonio—Arneson-Clark Co., Gunter Bldg., reported, develop San Pedro Hills subdivision.

Tex., San Saba—E. T. Fairman, Goldthwaite, reported, has contract for 103 miles of fencing for Yates Interests; cost \$29,000.

Tex., Shamrock—Chamber of Commerce, reported, interested in development of city park and playground.

Va., Hopewell—Fla.-Va. Corp., incorporated; J. M. Parkhill, L. S. Jones, both Miami, Fla.; J. L. Van Pelt, Hopewell.

Va., Hopewell—Hopewell Realty Co., Inc., W. B. Bahl, organized to handle holdings of Lavenstein Realty Co., in Hopewell and vicinity; erect number of dwellings.

Va., Norfolk—Gorson Realty Co., Inc., capital \$25,000, incorporated; R. E. Gorson, Oceano; Ralph P. Johnson, Law Bldg., Norfolk.

Va., Norfolk—Penn Land Corp., capital \$100,000, incorporated; Thomas W. Shelton, Bank of Commerce Bldg.; Alfred Anderson, 205 Court St.; John H. Rodgers, 521 Fairfax Ave.

Lumber Enterprises

Ga., Savannah—Industrial Electric Co., John Rollison, 9 Whitaker St., reported, has contract for electric power plant at the Savannah River Lumber Co.; install 950 h.p. motor driven engine, 500 kw. steam turbine driven generator in power plant, also have electrical construction work in woodworking plant. 1-5

Ga., Savannah—Langford & Ellis Lumber Co., Forty-third and Bull St., capital \$30,000; re-organizing; W. J. Ellis, Ridgeland, S. C.; Luther H. Quarterman, 401 E. 48th St., Savannah. 1-19

Md., Baltimore—Melvale Equipment and Supply Co., Inc., incorporated; Wm. A. Hamlen, 5017 Park Heights Ave.; Elijah N. Myers, 1335 W. Lombard St.

Miss., Carson—Newman Lumber Co., reported, plans moving timber industry into Lamar County.

Mo., Springfield—Tillman Lumber Co., capital \$10,000, incorporated; J. L. Tillman, L. I. Tillman, D. W. Tillman, 662 E. Madison St.

N. C., Charlotte—J. H. Wearn & Co., Geo. W. Wearn, Gen. Mgr., Fourth and Brevard St., reported, let contract to Blythe & Isenhour, Brevard Ct., Thies Smith Co., Commercial Bank Bldg., and J. T. Propst, 21 E. Sixth St., for construction of first unit of new plant located cor. Mint St. and Dowd Rd., contain about 50,000 sq. ft.; additional buildings to be constructed later; all machinery to be latest type, motor driven to be furnished by Newman Machine Co., Jackson St., Greensboro; estimated cost \$250,000; plans by Lockwood, Greene & Co.; Company manufactures lumber and building materials. 1-19

Okla., Altus—Rounds-Porter Lumber Co., reported, plans rebuilding burned plant, estimated cost \$250,000. 12-15

Mining

N. C., West Jefferson—Virginia-Carolina Soapstone Co., Roanoke, Va., promoting \$400,000 soapstone plant in Ashe County, core drilling and plans to greatly increase output.

Tennessee—See Iron and Steel Plants.

Tex., Fort Worth—Enos Sand and Gravel Co., capital \$100,000, incorporated; W. P. Morris, 906 S. Lake St.; W. S. Willis, 905 W. Cannon St.; D. L. Morris.

Tex., Smithville—T. E. House and C. W. Clark, reported, leased gravel plant from Colorado Valley Gravel Co., will develop.

Va., Lynchburg—Mount Lime & Chemical Corp., W. D. Mount, Peoples' Natl. Bank Bldg., reported, develop quarries, etc. See Miscellaneous Enterprises.

Miscellaneous Construction

Ala., Mobile—Seaboard Coal Mining Corp., 25 Broad St., New York City, wires regarding construction of \$150,000 coal terminal on site known as old gulf department of Alabama Drydock & Shipbuilding Co. foot of Elmira St.; "Contemplate improving property modern coal terminal and storage; engineering details predicated trackage facilities now being worked out." 1-19

Ala., Mobile—Seawall, etc.—J. B. Converse, County Engr., J. R. Peavy, Asst. City Engr., reported, started preliminary survey of proposed 6-mile seawall and boulevard from Arlington site to Dog river, along western shore of Mobile Bay. 1-26

Ala., Mobile—American Hoist & Derrick Co., St. Paul, Minn., reported, has contract at \$25,663 for 75 ton derrick to be installed on Pier No. 3 of State Docks; use for handling machinery and other heavy cargo. 10-27

Fla., Clearwater—J. P. Clarkson Co., Clearwater, has contract for creosoted piles and

wood deck of municipal pier, work begun; W. I. Alley, City Engr. 1-26

Fla., Daytona Beach—City, Comsn., reported, plans enlargement Halifax River Yacht Club basin; also construct new municipal dock. 12-15

Fla., Tampa—Pier, etc.—Tampa Yacht & Country Club, Joe B. Johnson, Pres., 5320 Interbay Blvd., reported, plans building 500-ft. pier and yacht wharf; cost approximately \$25,000.

Ga., Atlanta—Swimming Pool—City, reported, expend \$35,000 to \$40,000 for construction swimming pool and bath houses, Mozley Park, 300x400-ft., concrete bottom and side walls, L. L. Wallis, Supt. Parks; also plans improvements and additions to recreational facilities in various parks, playgrounds, etc.

Ky., Covington—Incinerator—Nye Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., reported, has contract at \$61,500 to install incinerator to consume both garbage and rubbish, to be ready for use by May 1. 10-25

La., Lake Charles—Wharf Sheds—P. Olivier & Son, Inc., 114 Bilbo St., Lake Charles, has permit for construction 3 steel wharf sheds for Lake Charles Harbor and Terminal Dist., Guy Beatty, Pres.; Elmer E. Shotts, Engr. 1-19

Okla., Shawnee—Mausoleum—William Horst, Shawnee, reported, has contract for construction mausoleum building, containing 400 single crypts, 8 family rooms. 10-6

Tex., Corpus Christi—Wharves, etc.—J. P. Miller, Edinburg, has contract at \$365,000 for following work: Reinforced concrete wharf, 304-ft. long; creosoted timber wharf 340-ft. with two transit sheds, structural steel frame, wood and composition roof, corrugated iron side walls; work to be completed in 150 days; Robert J. Cummins, Engr., Bankers Mortgage Bldg., Houston. 1-26

Tex., Texas City—Protective Wall, etc.—Work on first unit of protective wall and dike, reported, probably begin within two months, approximately \$100,000 is now available; E. B. Holman, County Judge. 12-8

Miscellaneous Enterprises

Ark., Fort Smith—Monarch Construction Co., capital \$100,000, incorporated; E. H. Locher, Okmulgee, Okla.; John H. Mueller, Cedar Rapids, Ia.; Tom Eads, Bentonville.

Ark., Ft. Smith—Harding Glass Co., North 11th St., C. H. Harding, Pres., reported, plans expending \$225,000 on improvements and new machinery, work require about 5 months, ready for operation about June 1; E. P. Arthur, Conslt. Chemist; John B. Hart, furnace builder.

Ark., Jonesboro—C. J. Chapin, T. J. Ellis and R. E. Robertson, reported, interested in establishing rice mill. 6-2

Ark., Pine Bluff—O. K. Ice Cream and Candy Co., Eighth and Main Sts., reported, contemplates 2-story factory building, estimated cost \$100,000.

Ark., Texarkana—Jewelry—Riley-Bates Jewelry Co., capital \$10,000, incorporated; Sam Riley, R. B. Bates, Fred H. Brewster.

Fla., Clearwater—City Comsn., reported, contemplates installing fire alarm system, cost about \$25,000.

Fla., Jacksonville—H. and W. B. Drew Co., 45 W. Bay St., reported, plans building \$100,000 addition to printing plant, install \$50,000 equipment.

Fla., Jacksonville—Warren-Huckins Yacht Corp. incorporated; F. P. Huckins, L. A. Warren.

Fla., Marianna—Marianna Lime Products Co. increased capital from \$1,000,000, divided into 60,000 shares, par value none.

Fla., Miami—Everdrie Shaker Corp. incorporated; H. I. Magid, Calumet Bldg.; A. S. Magid.

Fla., Milton—Gazette-Tribune, Inc., formed by consolidation of the Milton Gazette and Milton Tribune; D. R. Read and Ed Straughn will continue as Editors and Mgrs.; move plant into Allen Bldg.

Fla., Ocala—M. R. Porter of Ocala and Los Angeles, reported, establish plant to manufacture stoves for citrus groves and vegetable fields; materials all purchased.

Fla., Orlando—Clothing—A. W. Brennan & Son, Inc., chartered; A. W. Brennan, 62 W. Church St.; Beulah Brennan.

Fla., Port Orange—See Ice and Cold Storage Plants.

Fla., Stuart—H. L. Rockwood of Pom-

pano, Fla., reported, interested in establishment of paint factory.

Fla., Wauchula—Johnson Cutlery Works incorporated; J. W. Johnson, J. G. Anderson; started manufacture of knives, etc.

Fla., Winter Haven—Gibbs & Kramer, Archts., for proposed cigar factory building on W. Central Ave. for Gerke and associates.

Ga., Atlanta—Hardware—Sharp-Zachry-Horsey Co., 171 S. Humphries St., reported, acquired Atlanta Hardware Co.

Ga., Brunswick—Traffic Signals—City, reported, plans installing additional traffic signals. Address City Manager.

Ga., Dublin—Seminole Milk Co., Mark H. Fox, Pres., Jacksonville, Fla., reported, purchased The Dublin Creamery, increase capacity to 500,000 lbs. butter monthly; to be operated as Dublin Creamery, Inc.

Ga., Savannah—Jewelry—Henry J. Heyman Co., capital \$20,000, incorporated; H. J. Heyman, 1121 E. 48th St.; S. A. Turner.

Ga., Valdosta—Suwanee River Creamery, Levi Keyes, Sec.-Treas., reported, leased plant of Valdosta Creamery, will remodel and enlarge; plans operating number of creameries in south Georgia with Valdosta as headquarters; W. S. Vernon, Supt. 12-15

Ky., Louisville—National Motion Picture Service incorporated; Clyde H. Parkhurst, 728 N. Chestnut St.; W. Sherman Pfohl, Julia F. Parkhurst.

Ky., Louisville—National Doll Co., capital \$75,000, incorporated; Fred C. Schwartz, John L. Helfrich, Starks Bldg.; L. B. Flanagan.

La., New Orleans—Hub Cleaners and Dyers, Inc., Broad St., at Third, let contract to Hartman Salmen Lumber Co., for erection new plant, buildings 30x60-ft. and 20x30-ft., concrete and brick, cost approximately \$10,000; install complete dyeing and cleaning machinery and equipment, furnished by Southern Machinery Co., Inc., New Orleans. 1-12

La., New Orleans—Union Bottle & Supply Co., Inc., capital \$10,000, chartered; M. R. Rosen, 1128 Decatur St.; Carmilo Onorato, 535 St. Philip St.

Md., Baltimore—Building Materials—Maryland Lime & Cement Co., Inc., 443 S. Central Ave., chartered; Charles H. Classen, J. Scott Hunter.

Md., Baltimore—Kolb's Baking Co., 4406 Carleview Rd., incorporated; John Vernon Pimm, Frank Leonard Schmid.

Md., Baltimore—Sharpeners—Stanford Sales Co., 122 W. Perry St., incorporated; John H. Barrett, Frederick H. Starr.

Md., Baltimore—Heating Equipment—Howard Heating Co., Inc., 2705 Alameda Ave., incorporated; Howard A. MacCubbin, Helen M. Monnett.

Md., Baltimore—Capital Cake Co., 1304 Laurens St., incorporated; F. Dew Claybrook, American Bldg.; Robt. J. Healy.

Md., Baltimore—American Feed Products, Inc., 13 Stock Exchange Bldg., chartered; Charles H. Robertson, Howard S. Kroh.

Md., Baltimore—Undertakers—Lilly & Zeller, Inc., 403 S. Wolfe St., chartered; Edward D. Lilly, Edward L. Lilly.

Md., Baltimore—Long Beach Country Club, Inc., 2323 Eastern Ave., incorporated; George W. Konig, John H. Kennedy.

Md., Baltimore—Willard Tailoring Corp., 422 W. Redwood St., incorporated; Charles E. Winkelman, 1709 Chilton Ave.; Lawrence G. Hartman.

Md., Baltimore—Dairy Products—Clarence H. Weedon, Inc., chartered; Clarence H. Weedon, 221 Hanover St.; Thomas H. Jones, 21 W. Camden St.

Md., Baltimore—Lord Baltimore Ice Cream Co., Inc., 702 N. Monroe St., chartered; John W. Strigle, Harry H. Burns.

Md., Baltimore—Food Products—Thomas Henry Waters & Son, Inc., 868 Linden Ave., incorporated; Thomas Henry Waters, Thomas Randolph Waters.

Md., Baltimore—Canners Warehouse Corp., 101 E. Fayette St., incorporated; Joseph W. Murphy, Earle T. Fiddler, Harry B. Craig.

Md., Baltimore—Colonial Forge, Inc., 511 Clay St., incorporated; Victor Weisberger, James J. McDonnell, 307 Winston Ave.

Md., Baltimore—Eastern Cloak Co., 2133 E. Fairmount Ave., incorporated; Mayer J. Snyder, Isaac Snyder.

Md., Baltimore—Bancroft Court Apartments Co., 111 N. Charles St., incorporated; Fred Schuler, Thomas Turner.

Md., Baltimore—Printers Supplies—J. C. Niner Co., 16 S. Gay St., incorporated; John C. Niner, Daisy V. Niner.

Md., Baltimore—City Theaters, Inc., 526

N. Gay St., incorporated; Arthur B. Price, 2927 Guilford Ave.; George L. Saur.

Md., Baltimore—Vilma Amusement Co., 1607 N. Washington St., incorporated; Louis Gaertner, Richard Eyring, 801 Third St.

Md., Baltimore—Fire Proofing Solutions—Universal Fire Prevention Industries, Inc., Title Bldg., incorporated; Philip M. King, Charles Graft, George T. O'Brien.

Md., Baltimore—Plumbing—Frank A. Kerr & Co., 2206 Mondawmin Ave., incorporated; Frank A. Kerr, Mary B. Kerr.

Md., Baltimore—Fairy Gold Pure Food Products Co., 914 Watson St., incorporated; Charles A. Trageser, Walter V. Harrison.

Md., Baltimore—Florist—W. E. Kissick Co., 100 W. Centre St., chartered; Wm. E. Kissick, Wm. A. Snyder.

Md., Centreville—Centreville Free Library, Inc., chartered; Edwin Henry Brown, Jr., T. Gordon Bennett, Wm. L. Holton.

Md., Frederick—Simpson's Dairy, Inc., chartered; Wm. A. Simpson, Wm. Frank Simpson.

Md., Frederick—Maryland Transportation Co., 5 Church St., incorporated; Charles E. Sheets, George W. Sheets.

Md., Hagerstown—Emmert Hardware Co., Inc., 63 W. Washington St., incorporated; Charles J. Powles, Robert E. Powles.

Md., Hagerstown—Westminster Publishing Co., 74 W. Washington St., incorporated; Ephraim T. Hildebrand, Mathias P. Miller, Jr.

Md., Linthicum Heights—Linthicum Heights Stores, Inc., Maple Rd., incorporated; Seth H. Linthicum, Harry A. Kurtz.

Md., Salisbury—Tobacco—H. S. Todd & Co., Inc., chartered; Agnes P. Todd, Henry S. Todd, Jr.

Miss., Belzoni—Fire Fighting Equipment—City Council receives bids Feb. 7 for fire fighting equipment. See Want Section—Bids Asked.

Miss., Biloxi—Eugene Dowling, reported, let contract to Collins Brothers, to rebuild laundry recently burned, fireproof; soon begin construction.

Miss., Durant—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, acquired 1500 acre tract (known as J. E. Sweeney place), in Big Black river bottom, probably place 100 dairy cows on plantation; H. F. Laabs, Supt.

Miss., Houston—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, soon begin construction cheese factory; cost \$40,000. 12-1

Miss., Kosciusko—Pet Milk Co., Arcade Bldg., St. Louis, Mo., Elmer H. Koch, Purchasing Agent, advises: We expect to do all of construction and machine and installation work at Kosciusko plant; are now drilling well, having stack put up and probably start actual construction of building within the next ten days. 11-10

Miss., Laurel—Mason Fibre Co., W. H. Mason, V. Pres., South Fourth Ave., advises have placed an order for about 350 tons steel for a new building for the special manufacture of "Preswood" building, about 400x100 ft.; placed orders for three hydraulic presses with Southwark Foundry & Machine Co., Fourth and Washington Ave., Philadelphia, Pa., and for board machine with Hardletynes, 800 N. 28th St., Birmingham, Ala. 11-3

Miss., Olive Branch—Brown, Norvell Co., reported, plans erecting cheese plant, to handle 10,000 lbs. milk daily; soon begin work.

Mo., Kansas City—Roofing Materials, etc.—Magnetone Products Co., capital \$40,000, A. H. Dohrer, Henry Haussen, P. H. McCrory, 1908 Main St.

Mo., Mound City—Mercantile—J. H. Carter Stores Co., Inc., capital \$150,000, chartered; J. H. Carter, H. C. Alby, both Mound City; Ray W. Carter, Craig, Mo.

Mo., St. Louis—Mutual Cleaning and Dyeing Co., John Rudnay, Pres., 4536 Easton Ave., reported, let contract to H. L. Baerveldt, 6902 Robbins St., for erection office and warehouse, 1 and 2-story and basement, 50x33x25x73 ft., T-shape, brick, concrete foundation, composition roof, maple flooring; estimated cost \$20,000.

Mo., St. Louis—Menaugh & Lyster Printing Co., capital \$15,000, chartered; Harry Menaugh, 3155 Potomac St., Mae Menaugh, both St. Louis; Bart Lyster, Richmond Heights.

Mo., St. Louis—Shocker Radio & Electric Co., capital \$50,000, incorporated; Urban J. Shocker, University City; Roger C. Gehhart, 4518 Cleveland Ct., St. Louis.

Mo., St. Louis—Garlich-Richard Printing Co., 721 N. Seventeenth St., chartered; Theodore Garlich, Marvin C. Rickard, 3510 Cam-

bridge St., Andrew O. Grimes, 2834 Shenando St.

Mo., St. Louis—Home Furniture Co., capital \$30,000, incorporated; Abe Bloch, Clayton; Felix C. Lichtig, 5526 Pershing St., University City.

Mo., St. Louis—Manhattan Cap Co., capital \$30,000, incorporated; Jacques Gleitman, Julia Gleitman, Louis Walkowitz.

Mo., St. Louis—Union Ice Cream Co., 4268 W. North Market St., capital \$25,000, chartered; Jacob Martin, Jacob M. Moldafsky, 426 Paul Brown Bldg.

Mo., St. Louis—Clothing—Mode Shops, Inc., capital \$40,000, chartered; Milton J. Comer, Barney C. Abramsky, Irving E. Goldstein, 6637 Kingsbury St.

Mo., St. Louis—Washington Carpet Cleaning Co., 1410 N. Taylor St., incorporated; Magnus R. Snipen, 1714 Wagoner Pl., G. Gihbersen, Oscar G. Snipen, 4903 Forest Park Blvd.

Mo., St. Louis—Engineering—Geo. E. Wells, Inc., capital \$100,000, chartered; Geo. E. Wells, Security Bldg., Geo. E. Wells, Jr., Willis L. Wells.

Mo., St. Louis—Gast Bank Note Co., 4175 Chippewa St., has permit for erection light manufacturing plant, 126x57 ft., brick, tar and gravel roof; W. E. Harting Const. Co., 722 Chestnut St., builder; C. E. Thruston, Archt., Webster Groves.

Mo., Springfield—King Sign System, capital \$49,000, incorporated; W. A. King, 1430 Kickapoo St., Springfield; L. W. Heisel, Brunswick; Romeo H. Sasse, Dalton, Mo.

N. C., Asheville—S. Sternberg, reported, acquired plant of Manhattan Laundry, Inc., on Broadway.

N. C., Burlington—Community Mercantile Co., capital \$10,000, incorporated; L. L. White, G. M. Marley, J. W. Teal.

N. C., Dunn—Dunn Building Corp., capital \$50,000, chartered; G. M. Tilghman, E. F. Young, J. C. Clifford.

N. C., Durham—Mercantile—J. A. Murdock Co., Inc., capital \$100,000, chartered; J. A. Murdock, G. Whitt Hill, J. L. Morehead, First Natl. Bank Bldg.

N. C., Durham—Durham Electric Construction Co., capital \$100,000, incorporated; Walter Hitt, 1018 Brandon Ave., H. N. Brown, 4800 Mayflower Rd., both Norfolk, Va.; R. H. Sykes, Geer, Bldg., Durham.

N. C., Durham—Smith Overall Co., erecting 40x120-ft. building, 2-story; all material purchased; R. H. Powell, Jr., 1024 Gloria Ave., in charge of construction. 1-26

N. C., Durham—Mercantile—Rose Agency, Inc., 128 N. Parrish St., capital \$50,000, chartered; John Cole Rose, 2021 Club Blvd.; Mary L. Rose.

N. C., Durham—Hillside Gardens, Inc., capital \$50,000, chartered; J. S. Patterson, W. S. Griswold, Franklin Court Apts.; S. C. Brawley, 2122 Club Blvd.

N. C., Farmville—Accordeon Pleated Mattress Co., incorporated; J. I. Morgan, Farmville; O. A. Morgan, Fayetteville; C. S. Carr, 707 Westover Ave., Norfolk, Va.

N. C., Forest City—Forest City Hatchery, Paul H. Duncan, Mgr., rebuilding burned plant, 20x30-ft., hollow tile, concrete floor, asphalt roof, install 47,000 capacity incubator and office equipment, furnished by Smith Incubator Co., 1930 W. 77th St.

N. C., Gastonia—Barnes Grocery Co., Inc., capital \$10,000, chartered; W. R. Barnes, J. A. Harkey, F. F. Melton.

N. C., Greensboro—Tallow, Grease, etc.—Carolina By-Products Co., Inc., E. L. Field, Pres., 603 Union St., Norfolk, Va., plans erecting concrete and brick building; has site; install complete rendering equipment, all purchased. 1-29

N. C., Hickory—Dillon-Witt Underwear Co., Statesville, reported, plans establishing branch factory, second floor Council Bldg.

N. C., Lexington—American Upholstery Co., Grady Thodes, Mgr., S. Salisbury St., reported, acquired site for erection new plant, first unit 40x100 ft.; plans not completed.

N. C., Lincolnton—Lake Sylvia Park of Lincolnton, capital \$25,000, incorporated; L. E. Rudisill, John R. Schrum, L. C. Beam.

N. C., Mount Airy—Wood Wholesale Co., capital \$10,000, incorporated; J. G. Wood, Joe Dobson, Clarice Wood.

N. C., Raleigh—Carolina Apartment Hotel Co., capital \$250,000, incorporated; W. Bond Collins, Light and Redwood Sts., Rowland E. Adams, Baltimore, Md., H. A. Underwood, Commercial Bank Bldg., Raleigh.

N. C., Raleigh—E. L. Bush, 212 S. Cedar St., Charlotte, N. C., Mgr. Charlotte Branch

of International Harvester Co. of America, Inc., general office, Chicago, Ill., advises have rented store at 410 Salisbury St. to handle McCormick-Deering farm and industrial tractors; local corporation capitalized at \$25,000; stockholders are W. T. Bailey, V. M. Dorset, E. L. Bush, associates. 1-19

N. C., Raleigh—Florist—J. J. Fallon Co., Inc., 203 Fayetteville St., capital \$100,000, chartered; J. J. Fallon, J. Elvey Thomas, D. E. MacCarthy.

N. C., Salisbury—Rayon Converting Co., capital \$50,000, incorporated; E. B. Marsh, M. E. Marsh.

N. C., Statesville—Broad Street Pharmacy, Inc., capital \$100,000, chartered; C. A. Stearns, M. H. Biser.

N. C., Wilson—Merchants Bakery, Inc., capital \$25,000, chartered; H. P. Walthall, J. A. Baker, W. H. Taylor, 510 E. Vance St.

Okla., Bartlesville—Western Creameries, Inc., Herbert Forrest, Pres., Coffeyville, Kan., Wayne Moore, Mgr., Bartlesville, operating plants at Bartlesville, Coffeyville, Independence and Cheeryvale, Kan. (lately acquired); plans installing some refrigeration and pasteurizing vats. 1-19

Okla., Enid—DeCoursey Creamery Co., 644 Northrup Ave., Kansas City, Mo., reported, has leased with option to purchase 3-story, 33x165-ft., brick building, cor. Maple and Second Sts., remodel and expand approximately \$60,000 for equipment, portion of which is purchased; will not build on site recently purchased. 1-19

Okla., Oklahoma City—Prudential Fire Insurance Co., Braniff Bldg., capital \$1,000,000, incorporated; T. E. Braniff, Pres.; Ed. Overholser, G. A. Nichols, V.-Pres.; E. E. Doggett, Sec.

Okla., Oklahoma City—A. R. Pannell Machinery Co., Cotton Exchange Bldg., leased 20,000 sq. ft. floor space at 3325 E. Grand Ave., have begun installation of a stock of heavy machinery and mill supplies amounting to about \$250,000.

Okla., Oklahoma City—Louis Phillips Produce Co., capital \$50,000, incorporated; J. N. Phillips, Hollis Phillips, 311 E. 16th St.; Louis Phillips.

Okla., Tulsa—Hill, Hubbell & Co., reported, have plans for erection 70,000 paint factory and warehouse; brick, steel and tile, fireproof, 4-story; W. D. Blakely, Archt.; Pritchard & Puriton, Engrs.

Okla., Vici—Farmers Lumber and Supply Co., capital \$10,000, incorporated; A. L. Reeder, E. C. Schaumburg, both Vici; August Brookhaven, Canton.

Okla., Waurika—Waurika Lumber and Building Co., capital \$100,000, incorporated; Harry F. Mitchell, Waurika; J. B. Phillips, Oklahoma City.

Tenn., Chattanooga—Overalls—Holbert-Longley Manufacturing Co., 2519 E. Main St., capital \$100,000, incorporated; M. S. Longley, W. H. Stamper, J. F. Holbert, 456 Crest Rd.

Tenn., Columbia—W. M. Dean Marble Co., W. M. Dean, Pres.-Gen. Mgr., S. Garden St., reported, let contract to Richardson Lumber Co. for erection addition to present shop in rear of main building, extending plant 106 to 142 ft., also have space of 50x117 ft. for rough materials; also install additional equipment; increased capital to \$75,000.

Tenn., Gallatin—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, plans erecting \$100,000 plant, to be in operation in about 90 days.

Tenn., Kingsport—Tri-County Hardware Co., capital \$45,000, incorporated; Murray Frazee, E. W. Tipton, M. G. Starnes.

Tenn., Memphis—Proprietary Remedies—Rogers Ink & Specialty Co., capital \$25,000, incorporated; Virgil Rogers, Tom O. Crosby, W. R. Wright.

Tenn., Memphis—Mid-South Publishing Co. incorporated; Hugh Baggett, 1427 Court St.; Walter Chandler, Columbian Mutual Bldg.; B. S. Morris.

Tenn., Memphis—Guaranty Plumbing Co., Inc., chartered; Kennon A. Huggins, 1317 Eastmoreland St.; L. T. Palss, Ben C. Welch, 883 Linden Ave.

Tex., Alvin—Winchester Store, Inc., capital \$10,000, chartered; Ralph Dewitt, E. H. Cooper, James O. Dewitt.

Tex., Anderson—Hardware, Furniture & Supply Co., capital \$18,500, incorporated; G. B. Gennard, W. S. Brown, Dudley Brown.

Tex., Corpus Christi—W. E. Pope, care of Corpus Christi Times, reported, received following low bids for 8-story office building and printing plant: Runke Construction Co., Corpus Christi, at \$198,750 for general contract; Braden-Hudson-Wangler Co., 305 E. Commerce St., San Antonio, at \$7,897 for

heating; A. H. Shafer, 418 N. St. Mary St., San Antonio, at \$12,555 for plumbing; Wilkens Electric Co., 513 Schatzel St., Corpus Christi at \$6301 for electric; Wm. S. Seng, Builders Exchange, for radiators and mail chute; American Elevator at \$15,609 for elevators; Div., Electric Refrigeration Co., Detroit, Mich., Kelvinator; Kenneth E. Ahler, Archt., 624 Mesquite St., Corpus Christi; W. E. Simpson & Co., Inc., Consult. Engr., Natl. Bank of Commerce Bldg., San Antonio. 1-5

Tex., Dallas—Aronoff Apartment Co., capital \$13,500, incorporated; Julia Aronoff, Sarah Aronoff, J. Aronoff, 7937 Park Row.

Tex., Dallas—Reliable Roofing Co., incorporated; S. H. Manchec, Owen Moeller, Owen Lile.

Tex., Dallas—Sweet Cap Co., Inc., 907 Jackson St., capital \$50,000, chartered; Albert Sweet, Julius Kleinman, M. J. Neiman.

Tex., Denton—Denton Steam Laundry Co., capital \$20,000, incorporated; Jack F. Hyman, Jos. H. Ransom, Thomas A. Knight.

Tex., Fort Worth—Furniture, Carpets, etc.—Fakes & Co., Fort Worth Club Bldg., increased capital, \$500,000 to \$750,000.

Tex., Galveston—Galveston Model Laundry, Inc., W. A. Johnson, Pres., 2727 J St., advises following regarding incorporation of Galveston Model Laundry, Ideal Dry Cleaning Co., Family Washing Co. and Model Linen Supply Co.: These companies have been owned and operated by us as partnership, have now incorporated them, will run as separate business, with same officers for each company, now own three buildings. 1-19

Tex., Houston—Texas Retail and Water Terminal, capital \$500,000, incorporated; J. R. Cheek, Rex Dunbar Frazier, Lewis V. Echols.

Tex., Houston—Houston Salt Co., capital \$25,000, chartered; Geo. Leland, Esperson Bldg., Joe H. Eagle, Howard Canyon.

Tex., Houston—Los Angeles Soap Co., Charles A. Meyer, Pres., Los Angeles, Calif., reported, establish office at 701 N. San Jacinto St., to be distributing point for Texas and Western Louisiana.

Tex., Houston—Tosco Steamship Lines organized; T. R. Hancock, Pres., 2809 J St., Galveston; J. W. Major, Gen. Mgr., 2618 Crawford St., Houston; establish steamship service connecting Galveston and Houston with South America, Central America and Mississippi River ports.

Tex., Houston—Texas Rail & Water Terminal, capital \$500,000, incorporated; J. R. Cheek, Second Natl. Bank Bldg., R. D. Fraser, Lewis V. Nichols.

Tex., Houston—Houston Labor & Trades Council Publishing Co., incorporated; Geo. A. Wilson, I. T. Saunders, W. E. Carroll.

Tex., Jasper—Jasper Steam Laundry Co., reported, plans enlarging plant, install equipment.

Tex., Mercedes—United Printing Co., care of American Rio Grande Land & Irrigation Co., reported, let contract to Meriwether & Sauers, Harlingen, at \$19,694 for erection 2-story, 25x125-ft. newspaper and office building, hollow tile and stucco, reinforced concrete, cast stone, concrete and tile floors; R. Newell Waters, Archt. 12-29

Tex., Mercedes—Mercedes Creamery, Inc., capital \$60,000, chartered; Wm. Borchelt, G. C. Borchelt, M. A. Borchelt.

Tex., Normangee—F. W. Kasmeier, Sam E. Eberstadt, both Bryan, Tex., and associates, interested in establishing commercial chicken hatchery of 12,000 capacity.

Tex., Santa Anna—Santa Anna Furniture & Undertaking Co., incorporated; W. J. Hoseh, J. L. Boggus, Lillie M. Hosch.

Tex., San Antonio—Sigmund Press, Inc., capital \$50,000, chartered; Thos. B. Blue, 1142 Denver St., Fred G. Smith, E. Lyle Hauck, 159 Rockwood St.

Tex., Sherman—Meadolake Milk Products Co., C. A. Sanford, Pres., reported, contemplates establishing plant. 8-25

Tex., Tyler—Woldert Peanut Products Co., advises will rebuild burned plant and probably erect another mill in some other point in Texas; J. W. Woldert will be in charge of purchase of supplies for material for new plants. 1-12

Tex., Uvalde—Grocers—H. W. Little, Inc., increased capital \$100,000 to \$150,000.

Tex., Victoria—Gene Mauer of Cuero, reported, has contract for \$20,000 creamery for Crescent Valley Creamery Co. 1-12

Tex., Wichita Falls—M. Johnson Poultry Ranches, capital \$200,000, incorporated; M. Johnson, Lum Lovette, Frank Kell, City Natl. Bank Bldg.

Va., Bristol—Bristol Typewriter Co., Inc., advises, will probably rebuild burned building

some time in spring or early summer. Plans indefinite at present. 1-26

Va., Lynchburg—Mount Lime and Chemical Corp., capital \$500,000, chartered; reported, plans establishing plant to produce high grade lime for use in chemical industries, lime products and by-products; acquired property near Natural Bridge Station, on Chesapeake and Ohio Ry.; building and operation of plant to be under supervision of W. D. Mount (Chemical Engr.), People's Natl. Bank Bldg., Lynchburg. Mr. Mount advises no foundation to report, at least for immediate present.

Va., Martinsville—E. V. Blair, Nappanee, Ind., reported, purchased The Henry Bulletin, will publish.

Va., Norfolk—Plumbing, etc.—Bennett & Hobbs, Inc., 408 Monticello Ave., capital \$25,000, chartered; Freeland E. Hobbs, 511 W. 29th St.; K. G. Bennett, 1715 St. Dennis Ave.

Va., Norfolk—The Club Aluminum Co., general office 1238 Fullerton Ave., Chicago, Ill., R. D. Clay, Office Mgr., advises: It is not our intention to erect distributing depot and sales office; have, however, rented space for sales offices. 1-26

Va., Roanoke—Roanoke Ice and Cold Storage Co., 4 Wasena Ave., E. C. Tudor, Pres.-Gen. Mgr., reported, acquired The Griggs Packing Co., Franklin Rd., continue existing business.

W. Va., Huntington—Midland Trail Glass Co., capital \$50,000, incorporated; M. M. Freeman, O. S. Crawford, 1804 Crestmont Dr.; R. P. Asbury, 524 Ninth St.; reported, take over Mid-City Glass Co. at Culloden.

W. Va., Moundsville—Fostoria Glass Co., C. B. Roe, Sec., reported, let contract to R. R. Kitchen Co., 37 19th St., Wheeling, to erect plant addition, cost about \$150,000; to H. L. Dixon Co. to install furnace; plant to be ready for operation about June 1; employ approximately 200 additional persons. 11-24

W. Va., Weston—Lowe Glass Co., reported, acquired The Weston Glass Co.; combined plants employ about 200 persons.

Motor Bus Lines and Terminals

Ky., Brownsville—Brownsville-Bowling Green Bus Co., incorporated; V. R. Logan, Ruth Logan, Pleas Sanders.

Md., Baltimore—Mayflower Cab Co., Inc., 1626 St. Paul St., incorporated; Albert B. Nitzell, Walter E. Bonner.

Okla., Ada—S. and L. Transportation Co., Oklahoma City, applied for permit to operate freight bus line between Ada and Wewoka.

Okla., Ringwood—G. B. Scott applied for permit to operate freight bus line to Fairview.

Okla., Sulphur—T. J. Allen applied for permit to operate passenger bus line to Duncan.

Tex., Beaumont—Young's Bus Lines, Ben D. Jackson, Director of Company, 2193 Calder St., reported, plans purchasing 6 new buses; recently acquired Interurban Transportation Co.'s franchise between Lake Charles, La., and Beaumont. 12-15

Tex., Port Arthur—See Street Railways.

Va., Roanoke—Eagle Motor Lines applied for permit to extend present passenger bus line between Roanoke and Martinsville, from Martinsville to Danville.

W. Va., Parkersburg—Monongahela West Public Service Co., Wm. L. Martin, Mgr., Parkersburg and Marietta Div., reported, will soon begin operations of two additional bus lines within city limits, equipment ordered.

Motor Cars, Garages, Filling Stations

Ala., Birmingham—Whitman's Automobile Benefit Co., Inc., subsidiary of A. B. C. Gas & Oils, organized, P. Y. Whitman, 2500 14th Ave., S., Harold J. Berry, William Taylor; establish station at 1701 First Ave. and other points.

Ala., Evergreen—Evergreen Motor Co., reported, receiving bids for construction building plate glass, steel rolling doors, metal ceiling; 1-story, 150x150 ft., brick, steel sash, ing. roofing tile; Okel & Cooper, Archts., Bell Bldg., Montgomery.

Ark., Little Rock—L. F. Witherspoon, 616 N. Cedar St., reported, has contract to erect 1-story brick garage at Eighth and Rice St. for Southwestern Bell Telephone Co., replacing building now used at Seventh and Arch Sts.; estimated cost \$15,000.

Fla., Jacksonville—New Fordit Co. incorporated; O. F. Gordon, Fay Crutchfield.

Fla., Miami—Hintz Construction Co., reported, awarded contract at \$33,400 for erec-

tion second unit of municipal garage N. W. Tenth Ave. and Twentieth St. 12-29

Fla., Venice—Orange Blossom Garage, incorporated; J. H. Jones, W. C. Spain.

Ga., Columbus—Cliff M. Averett, 1131 First Ave., reported, plans remodeling building cor. Fifteenth St. and First Ave. for garage and erect new building; receives bids Feb. 6: T. Firth Lockwood, Archt., Murrah Bldg.; bidders are Williams Lumber Co., Inc., 13th St.; M. C. Barlow, 1147 1/2 Broad St.; C. W. Buck, 704 E. 23rd St.; Cooper Lumber Co., 12th Ave.; Ewart Bros., Pine St.; W. C. Whitaker, 1121 First Ave., all Columbus. 11-24

Ky., Louisville—Newport Auto Sales Co., Geo. W. Oetjen, Pres., Fifth and Monmouth St., leased garage at 111-13 Beech Ave., use for used car headquarters.

La., New Orleans—Non-Stop Tire Co., Inc., capital \$100,000, chartered; C. G. Gaspard, 1103 Lowerline St.; H. W. German, 437 S. Solomon St.

La., Opelousas—Daly Motor Car Co., Inc., chartered; Frank T. Daly, H. J. Burleigh, Ira C. Dimmick.

La., Vivian—Jack Toombs Motor Co., Inc., capital \$30,000, chartered; Jack Toombs, Verda Williams, both Vivian; J. D. Blanton, 363 Albany St., Shreveport.

Md., Frederick—Lee Automotive Sales, Inc., chartered; James L. Parson, Frank L. Stoner.

Md., Baltimore—Crown Oil & Wax Co., 200 S. Eighth St., has permit for gasoline filling station and office at Fayette and Colvin Sts.; George N. McKenzie, Archt., 35 Franklin Bldg.

Md., Cumberland—Spoerl's Garage, Inc., 28 N. George St., incorporated; John Peter Spoerl, George Louis Spoerl.

Mo., Jefferson City—Kemp Asel, Mgr., City Tire and Battery Co., reported, plans erecting filling station and garage cor. Adams and E. Capital Ave., as annex to building recently completed; filling station 45x50 ft., garage to be 2-story, with direct passage to present building; construction to begin soon.

Mo., Kansas City—Building for General Motors Corp. at 2501 McGee Rd. now under construction; 170x230 ft., cost approximately \$100,000; will have about 39,000 sq. ft. floor space; structure financed by Scarritt Realty Co.; structure will house salesrooms General Motor Truck Co., Yellow Truck & Coach Co.'s Products and service equipment for General Motor trucks, Yellow coaches, taxicabs and Hertz Drivervelf Stations, Inc., cars. 1-26

Mo., St. Louis—Young-Seibert Tire Co., 5412 S. Kingshighway, capital \$25,000, incorporated; H. A. Young, George Seibert, I. H. Whitmore.

N. C., Charlotte—J. A. Jones Construction Co., Realty Bldg., reported, awarded contract for erection 4-story auto storage building at 208 S. Church St.; cost about \$225,000; fireproof, reinforced concrete, brick walls, built-up roof, ramp system, steel sash; soon begin work.

N. C., Charlotte—Victor Shaw Tire Co., capital \$50,000, incorporated; Victor Shaw, 9 Brierward Rd., Myers Pk.; Elsie B. Shaw, Arhtie F. Campbell, 1706 Lyndhurst Ave.

N. C., Charlotte—Motor Storage Corp., capital \$300,000, chartered; D. C. Carmichael, Hermitage Court; F. H. Cothral, J. A. Jones, Realty Bldg.

N. C., Forest City—Doggett Motor Co., Inc., capital \$50,000, chartered; H. H. Doggett, B. B. Doggett, C. L. Morris.

N. C., Gastonia—Coffey Motor Co., capital \$50,000, incorporated; J. H. Coffey, A. J. Stover, E. I. Coffey.

N. C., Greensboro—Rawls Chevrolet Co., capital \$100,000, incorporated; C. H. Rawls, 1023 Cowper Drive, Raleigh; J. L. Kernodle, Burlington; Guy W. Rawls, 5 Cridland Rd., Greensboro.

Okla., Oklahoma City—J. A. Deigman, Inc., Fifth and Broadway, reported, let contract to A. L. Wharton for erection of garage and salesroom; brick, steel and concrete, cost about \$30,000. 10-20

Okla., Tulsa—Foster Davis Motor Co., reported, plans erecting \$20,000 tire station; 1-story, 50x100 ft.; H. H. Mahler Co., Archt., 204 1/2 E. Third St.

Tenn., Chattanooga—Treece Auto Laundry, W. L. Treece, 1512 McCallie Ave., let contract to Martin & Warlick, James Bldg., for plant addition. 1-19

Tenn., Memphis—Swayne Latham Tire Co., reported, will occupy building to be erected corner Cleveland and Union Ave.; Joe T. Wallace, Archt., Commercial Bank Bldg.

Tenn., Memphis—Ragsdale Auto Parts Co., 2532 Summer Ave., reported, plans erecting \$15,000 garage, 1-story, 200x125 ft., brick, composition built-up roof, concrete and wood

floors, steel sash, miscellaneous steel; receiving bids.

Tenn., Nashville—Dozier & Parker, 614 Commerce St., let contract to J. C. Stockett, Thirteenth and Grundy Sts., at \$16,000 for erection 1-story, 50x136-ft. building to be used for radiator repairs and nickel-plating shop; brick and concrete, steel frame, wood roof joist, built-up asphalt roof, concrete roof, metal sash, wire glass, steel skylights; type "A" Thermo modulation heating system is being considered; O. J. Billis, Archt., 62 Arcade. 1-26

Tex., Edinburg—Standard Chevrolet Co., capital \$15,000, incorporated; Ben. M. Baker, J. L. Roberts, H. E. Bertram.

Tex., Goose Creek—Claude W. Smith, reported, let contract to Carl Dittman, Houston, at \$12,000 for erection of 50x100 ft. automobile sales building, cor. Texas Ave. and Commerce St.

Tex., Pharr—Raymond Johnson, reported, erect \$25,000 garage and filling station, 1-story, 85x100-ft., brick, frame and concrete; A. H. Woolridge, Archt., McAllen.

Tex., Quanah—J. A. Thompson, reported, acquired site cor. Eleventh and Main St.; erect filling station.

Tex., San Antonio—Louis W. Lipscomb, Frost Bldg., reported, let contract to Moeller & Wellbacher, 1211 Willow St., to erect brick and tile garage, Convent St., approximate cost \$35,000.

Railways

N. C., Thomasville—The High Point, Thomasville & Denton Railway, reported, will build a 5 mi. extension to serve industries at and adjacent to Thomasville. C. F. Tomlinson, High Point, N. C., is Pres.

Railway Shops and Terminals

Ark., Pine Bluff—W. S. Hanley, Ch. Engr., St. Louis Southwestern Railway Lines, Tyler, Tex., advises following with reference to installation of new transfer table: Will replace 72-ft. transfer table with an 80-ft. transfer table at Pine Bluff, cost \$35,000; table has been purchased and delivered by Whiting Corp., Harvey, Ill., will install with Company forces. 1-26

Tex., San Angelo—Gulf, Colorado & Santa Fe Ry. Co., F. Merritt, Ch. Engr., Union Depot Bldg., Galveston, reported, have tentative plans for relocation of roundhouse; concrete and steel; initial capacity of 5 stalls, with arrangements permitting increase in size; approximate cost \$135,000 to \$140,000.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Auburn—City, C. S. Yarbrough, Mayor, plans letting contract about Mar. 1 for 1 mi. 30-ft. wide 6-in. thick paving, with curb and gutter; considering about 1/2 mi. additional paving.

Ala., Bessemer—City, P. M. Matthews, Mayor, plans paving Fifth Ave., Main to Thirteenth; Twentieth St., Clarendon to Berkley Ave.

Ala., Center—Cherokee County Commrs. plan county road, through Tecumseh, connecting Tecumseh-Norman Road, and Tecumseh-Earlsboro Road, both sections of State Highway No. 37; from Tecumseh-Norman Road at city limits, south to Park St., and east to Broadway.

Ala., Birmingham—City Comm. will appropriate \$100,000 to pave Third Ave. and Lomb Blvd.; city plans paving Third Ave. along car line to city limits; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., plans expending \$103,585 to widen and pave various streets: Re-pave Eleventh Ave., South, with sheet asphalt on bitulithic, and widen, 40 to 65 ft.; pave Arkadelphia road, Fifteenth and Second Ave.; A. J. Hawkins, City Engr.

Ala., Decatur—State Highway Comm., Woolsey Finkel, Highway Director, Montgomery, plans receiving bids in Feb. to rebuild Bee Line Highway between Decatur and Hartselle; W. A. McCalla, State Highway Engr.

Ala., Decatur—City Council receives bids Feb. 3 to pave Ninth Ave., West, from Moulton St. to city cemetery. Address City Clk.

Ala., Mobile—City, Cecil F. Bates, Commr., considering \$2,500,000 Twenty-sixth Paving Venture, embracing 120 streets, totaling over 30 mi. paving in various sections of city. S. H. Hendrix, City Clk.

Ala., Montgomery—City Comm., W. L. Jackson, Clk., plans receiving bids soon to pave Alabama St., Court to Ripley; Hull, Felder to Fairview; resurface Monroe St.; install sanitary sewers on Patrick St. 1-15

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., receives bids Feb. 16 for 3 roads: Johnson County—10 mi. grading and drainage structures, State Highway No. 123, Sec. 2; Clarksville-St. Paul road, 72,837 cu. yd. excavation and borrow, 56,185 lb. reinforcing steel; Washington County—11 mi. grading and drainage structures, State Highway No. 80, Parkers Corner-Oklahoma line road; 90,670 cu. yd. excavation and borrow, 76,659 lb. reinforcing steel; plans on file; C. S. Christian, State Highway Engr.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids Feb. 16 for 7 bridges and 2 roads: Nevada County—6 treated timber pile bent bridges, about 1078 lin. ft., on Prescott-Bluff City road, State Highway No. 24, Sec. 5; two 97 ft., two 102 ft., one each 154x344 ft.; Washington County—4 mi. grading and drainage structures Fayetteville-Clear Creek road, State Highway No. 71, Sec. 17, 44,439 cu. yd. excavation, 24,222 lb. reinforcing steel; Yell County—132 lin. ft. reinforced concrete deck girder bridge on Ola-Hot Springs road, State Highway No. 7, Sec. 9; two 31-ft., two 35-ft., 368 lin. ft. earth approaches; 2741 cu. yd. excavation, 54,670 lb. reinforcing steel; Marion and Boone Counties—5 mi. grading and drainage structures Yellville-Lead Hill road, State Highway No. 14, Sections 1 and 2; 39,913 cu. yd. excavation, 14,559 lb. reinforcing steel; plans on file; C. S. Christian, State Highway Engr.

Ark., Little Rock—Commrs. of Street Improvement Dist. No. 473, Paul Grabel, Chmn., receive bids Feb. 6 at office of Carl E. Bailey, Atty., 819 Rector Bldg., for paving and other necessary work in dist.; plans from F. A. Pritchett Engr., for dist., 312 Riegler Bldg.

Ark., Little Rock—Street Improvement Dist. No. 492, Horace Knowlton, Clk., plans grading, drainage, curbing, guttering and paving Commerce, Eleventh, Twelfth and Thirteenth St.; estimated cost \$36,000.

Ark., Pine Bluff—Jefferson County, R. H. Williams, Judge, reported, plans 6 mi. 50-ft. gravel road connecting Pastoria Road with Plum Bayou Road; cost \$90,000 to \$100,000.

Ark., Texarkana—City, S. C. Nancarrow, Mayor, plans paving Front and State Line St.; cost \$15,000; also 3 bridges: Over Nix Creek, on Broad, East Ninth and Harrison Ave.; cost \$24,000. See Financial News—Bond Issues Proposed.

Florida—State Road Dept., Fons A. Hathaway, Chmn., Tallahassee, reported, receives bids Feb. 21 for 4 roads: Palm Beach County—17 mi. grading, drainage, structures, rock base surface treated; State Road No. 25, from Belle Glade to Hendry County line; Glades County—18.53 mi. grading, drainage structures and surface treated broken stone base No. 2, Road No. 67 (otherwise designated 26), from Highlands County line to Mains Corner; Clay County—7.2 mi. surface treated broken stone base No. 2; Road No. 3, between Doctors Lake and Black Creek; J. L. Cresap, State Highway Engr.

Fla., Apalachicola—City Comm. plans street paving.

Fla., DeLand—Volusia County Commrs., Sam D. Jordan, Clk., reported, receives bids Feb. 13 for 3 mi. highway, following course of Old De Leon Springs Road, and adjoining road under construction by Glenwood-De Leon Special Road and Bridge Dist., and connecting new highway with State Road No. 3, north of DeLand.

Fla., Jacksonville—Duval County Commrs., A. T. Brown, Chmn., plan improving runway at Atlantic Beach; F. M. Edwards, County Engr.

Fla., Inverness—Citrus County Commrs., Claude Connor, Clk., receive bids Feb. 6 to improve road from 1 Mile Turpentine Still, Sec. 21, easterly through or near Foxworth Land, across slough to Moccasin Slough Bridge; plans on file.

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., receives bids Feb. 29 for 5685 sq. yd. resurfacing with 1 1/2-in. sheet asphalt on 1-in. binder; laying 53,418 sq. yd. 1 1/2-in. sheet asphalt, 1 1/2-in. binder on 6-in. concrete base, 5153 sq. yd. 24-in. vitrified brick gutter; 26,082 sq. yd. 1 1/2-in. sheet asphalt, 1 1/2-in. binder on 6-in. concrete base, using 7-in. concrete parking areas with integral curb, 11,785 sq. yd. concrete; 42,334 sq. yd. 3-in. vertical fibre brick on 8-in. lime-

rock base; relay 55,107 sq. yd. old brick on 8-in. limerock base; on streets in Ordinances No. T-1, T-2, T-4, T-5, T-6 and T-34; W. E. Aheddan, City Engr.

Fla., Jacksonville—City, M. W. Bishop, Sec., receives bids Feb. 27 for \$800,000 street paving; W. E. Sheddin, City Engr. 1-26

Fla., Leesburg—City, W. E. Harkness, Clk., receives bids Feb. 13 for 11,000 sq. yd. street paving, with appurtenances connected therewith; plans from D. E. Bivins, City Mgr., and H. S. Jaudon Engineering Co., Leesburg.

Fla., Miami—City Comm., Welton A. Snow, Mgr., plans placing oil and sand on W. Flagler St. to 46-ft. width, from N. W. Thirty-seventh to Seventy-second Ave.; Dade County Commrs. to grade and rock roadway.

Fla., Miami—State Road Comm., F. A. Hathaway, Chmn., Tallahassee, reported, ordered survey of proposed road on banks of Miami Canal, from southern edge of Lake Okechobee to Miami; J. L. Cresap, State Highway Engr.

Ky., Danville—State Highway Comm., Frankfort, reported, plans building Perryville-Springfield road, Boyle County; E. N. Todd, State Highway Engr.

La., Covington—City, Wallace M. Poole, Mayor, receives bids Feb. 14 for 9,700 sq. yd. Warrenite bitulithic on concrete base; plans on file and from A. G. Mundinger, Engr., Baton Rouge.

La., Covington—City, C. K. Warren, Sec., receives bids Feb. 14 for street improvements; cost \$75,000; A. D. Mindgier, Engr.; W. M. Poole, Mayor. 11-17

La., Covington—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, receives bids Feb. 14 for 2,367 mi. Warrenite bitulithic wearing surface on concrete base paving in Covington, on Boston, Asia and Twenty-first Ave., St. Tammany Parish, 33 and 20-ft roadway with curb and gutter; plans on file and from Nicholls W. Bowden, State Highway Engr. 1-22

La., Farmerville—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, received low bid from Harvey & Jones, Jonesboro, for 2 highways in Union Parish: 4 mi. Bernice-Farmerville Highway, \$39,742; 7.178 mi. Farmerville-Bastrop Highway, \$41,752. 12-15

La., Franklin—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, received low bid from O. O. Ogden, Louisiana Natl. Bank Bldg., Baton Rouge, at \$25,801 for 1.48 mi. shell asphalt, Old Spanish Trail, Morgan City, St. Mary Parish; Nicholls W. Bowden, State Highway Engr.

La., Jennings—City plans concrete pavement along right-of-way on Railroad Ave., between Cary and point east of passenger depot. Address City Clk.

La., Oakdale—City, D. C. Green, Clk., receives bids Feb. 23 to grade, hard surface and gravel streets, with necessary drainage system, curb and gutter: 31,800 sq. yd. permanent paving, 28,000 lin. ft. concrete curb and gutter, 5960 lin. ft. plain concrete curb, 19,790 cu. yd. excavation, 6,188 lin. ft. 12 to 24-in. vitrified or concrete sewer pipe, 12 manholes, 34 drain inlets, 7500 cu. yd. gravel or shell; plans on file and from Henry A. Mentz, Engr., Hammond, La.

La., Ville Platte—Evangeline Parish Police Jury, plans roadbuilding in Chataignier Road Dist. No. 1, cost \$40,000. See Financial News—Bond Issue Proposed.

Md., Baltimore—City, Nathan Smith, Highways Engr., plans letting contracts after Feb. 15 for 6 paving projects, between 50,000 and 55,000 sq. yd.; Chas. F. Goob, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore—City, Board of Awards, receives bids Feb. 8 for grading in Venable Park; Winfield F. Courts, Park Engr.; Nathan L. Smith, Highways Engr.; Wm. F. Broening, Mayor.

Miss., Hazlehurst—Town, C. O. McKinnell, Clk., plans paving Croker and Extension Sts.

Miss., Lucedale—City plans graveling streets around courthouse. Address City Clk.

Miss., McComb—City, Mayor Wolbrecht, and Board of Aldermen, plan paving Seventh St. and Michigan Ave.; J. A. Mentz, Const. Engr., Hammond, La.

Miss., Waynesboro—Board of Aldermen considering paving Front St.

Missouri—State Highway Dept., Jefferson City, receives bids Feb. 7 for 19 roads and 29 bridges: De Kalb County—Route 36, bridge at Cameron, 11,210 ft. creosoted timber, 2280 lb. structural steel; bridge at Sta-

tion 1-97 plus 70, two 28-ft., one 33-ft., I-beams; Holt County—Route 10, 3,213 mi. 30-ft. graded earth, Bigelow-Mound City Road, 188,757 cu. yds. excavation, 162,650 lb. structural steel; bridges over Little Tarkio Overflow, Little Tarkio, and Todd Creeks, Squaw Creek ditch, truss, deck girder, pile trestle, I-beam; Nodaway County—1,455 mi. 30-ft. graded earth, Burlington Junction, west, 97,527 cu. yd. excavation, 446,790 lb. structural steel; 2,859 mi. 30-ft. graded earth, Burlington Junction, west, 45,630 cu. yd. excavation, bridges over small ditch, borrow pit, Mill Creek Drainage ditch, overflow Nodaway River Drainage ditch, Nodaway River Drainage ditch, I-beam, truss spans.

In Lincoln County—Route 56, 448 mi. 18-ft. gravel, Winfield-Old Monroe Road, 14,296 cu. yd. excavation; Marion County—Route 252, 3,115 mi. 18-ft. concrete, Hannibal, west, 20,915 cu. yd. excavation, 32,764 sq. yd. pavement; 5 mi. 18-ft. concrete, Hannibal, east, 14,990 cu. yd. excavation; Lafayette County—4,776 mi., 2,200 mi., 2,490 mi. 30-ft. graded earth, Lexington-Higginsville Road, 105,459 cu. yd. excavation, bridges over creeks, deck girder and double 10x11 box; 473 mi. concrete gutter, Cliff Drive, in Lexington; Cole County—4,466 mi. 44-ft. graded earth, Jefferson City, west, 137,863 cu. yd. excavation, bridge at Station 27 plus 63.9, Michigan Street retaining wall; bridge at Station 34 plus 37, Park Creek, deck girder; Howard County—4,897 mi., 4,366 mi. 30-ft. graded earth, Fayette-New Franklin Road, bridge over Adams Fork, deck girder, 70,573 cu. yd. excavation.

In Iron County—repair bridge over Mo. Pac. R. R.; Barry County—3,186 mi. 18-ft. gravel Monett-Speth, 30,922 cu. yd. excavation, bridge over creek, culvert extension; Bates County—2,196 mi. 30-ft. graded earth, Route 71, east, 30,576 cu. yd. excavation, 48,000 lb. structural steel; Laclede County—284 mi. 30-ft. graded earth, at Horseshoe Pond; Polk County—2,652 mi. 18-ft. gravel, Bolivar, east, 30,007 cu. yd. excavation, bridges over Piper Creek and Town Branch deck girders and slabs; Cape Girardeau County—2,793 mi. 9-ft. concrete and 7-ft. gravel, Dutchtown-South Road, 23,526 cu. yd. excavation, bridges at Station 300 plus 27, 309 plus 70, 324 plus 60, 336 plus 80, box culvert; plans on file and from Div. Engrs.; T. H. Cutler, Ch. Highway Engr.

Missouri—State Highway Comm., Jefferson City, will probably have about \$10,000,000 available during 1928, to build about 600 mi. all types of roads; T. H. Cutler, State Highway Engr.

Mo., Holly Springs—Mayor and Board of Aldermen plan 10 blocks of concrete paving.

Mo., Macon—City, W. A. Tibbs, Clk., receives bids Feb. 6 for 4-ft. wide concrete sidewalks on Riggs St.

Mo., St. Louis—City, Board of Public Service, received low bids at \$195,697, to improve 14 streets and alleys, including Burke Ave., Thirty-seventh St.; Eyerman Construction Co., 1216 S. Grand St.; Alfred Lewald, Inc.; Webb-Boone Paving Co., 5103 Tyler St.; Granite Bituminous Paving Co., Railway Exchange Bldg.; William A. Riley, 704 Interdrive; C. A. Moreno, Syndicate Trust Bldg.; Trinidad Asphalt Manufacturing Co., Title Guarantee Bldg.; Bridges Asphalt Paving Co.

North Carolina—State Highway Comm., Frank Page, Chmn., Raleigh, received low bids for 13 roads, bridge, overpass, approach and underpass paving; total cost \$2,321,400; Beaufort County—1,225-ft. bridge, 168-ft. steel swing span, electrically operated, over Pamlico River near Washington, Roanoke Iron & Bridge Works, Inc., Roanoke, Va., \$189,539; Brunswick County—11.90 mi. hard surface, from Supply to point near Brunswick Station, P. R. Ashby & Co., Raleigh, \$187,258; Guilford County—3.37 mi. dirt from County line to Stokesdale, Route 65, C. B. Hester, Greensboro, N. C., \$29,783; structures, \$5032; Mecklenburg County—5.7 mi. concrete, Charlotte to Thrift, R. H. Wright & Son, Charlotte, N. C., \$112,906; Allegheny County—3.64 mi. grading and structures, Route 67, Wilkes County line to Laurel Springs, L. R. London, Jr., Robbinsville, N. C., \$37,258; structures, \$11,841; Forsyth County—11.85 mi. grading and structures, Route 65, from Route 60 to Guilford County line, Gregory Chandler & Co., \$82,352; structures, Kiker & Yount, Reidsville, N. C., \$36,384; Davie County—9.32 mi. concrete, Route 90, from Mocksville to Iredell County line, F. J. McGuire, 601 Bankers Trust Bldg., Norfolk, Va., \$185,235; Polk County—8.59 mi. concrete, Saluda to Tryon, P. H. Wright & Sons, Charlotte, N. C., \$171,277.

In Haywood County—overpass, Canton to Runcombe County line, L. J. Smith, 16½ Wall St., Asheville, N. C., \$9537; Chatham County—59 mi. approaches and fill to bridge

over New Hope Creek, Route 90, Lavender Brothers, Earl, N. C., \$11,664; Northampton County—7.62 mi. dirt road, Route 40, between Virginia State line and Roanoke Rapids, C. A. Ragland, Louisburg, N. C., \$34,097; Bertie County—14.76 mi. hard surface, Windsor to Chowan River, Roberts Paving Co., Salisbury, Md., \$357,279; Chowan County—4.14 mi. concrete, Edenton to Chowan River, Roberts Paving Co., \$93,918; Wayne County—15.9 mi. hard surface, from Route 40 to county line toward Newton Grove, Roberts Paving Co., \$368,482; 9.22 mi. concrete from Route 10 to Green County line, F. J. McGuire, \$187,345; Greene County—9.10 mi. concrete, Snow Hill to Wayne County line, Carolina Construction Co., Bennettsville, S. C., \$203,142; Alamance County—paving at Haw River underpass on Route 10, Gregory and Weisiger, Pittsboro, N. C., \$7092; Lester Ames, Ch. Highway Engr. 1-19

N. C., Asheville—State Highway Comm., Frank C. Page, Chmn., Raleigh, authorized appropriation of \$73,000 to place asphalt surface on 18 mi. gravel road on Routes 28 and 278, between Cherokee and Clay County lines and Georgia-North Carolina State line; John C. Walker, Ninth Dist., Engr.

N. C., Charlotte—City, Robert L. Brown, Commr. of Public Works, plans receiving bids in few weeks for \$500,000 street improvement project: re-pave Trade St.; widen and extend South College St.; widen East Fourth, East Fifth and West Moreland Sts.; probably widen and re-pave North Graham St. 12-22

N. C., Robbinsville—Graham County Commrs., W. M. Sherrill, Clk., receive bids Feb. 15 for 11 mi. grading, culverts and bridges on county roads; plans from J. C. Grannan Engineering Co., Waynesville, N. C.

Okla., Ada—Pontotoc County plans letting contract about Mar. 1 to grade and drain Ada-Allen Highway; plans building road to Stonewall; B. C. Herbert, County Engr. 11-17

Okla., Altus—City plans street paving. Address City Clk. See Construction News—Bond Issue Proposed. 1-19

Okla., Arapaho—Custer County Commrs. plan paving U. S. Highway No. 66 through county, cost \$900,000. See Financial News—Bond Issues Proposed. 11-24

Okla., El Reno—Canadian County plans letting contract in Feb. or March, to grade and drain 2 roads: U. S. Highway No. 81, from El Reno north to Okarche; U. S. Highway No. 66, from El Reno west to county line; may let contract in June to pave road from Yukon to El Reno.

Okla., Miami—State Highway Comm., Oklahoma City, plans taking over and improving Ottawa County Highway, between Wyandotte and Seneca, Mo.; widen to 80 ft., grade and gravel 10 mi. highway which connects with Missouri State Highway No. 16, near Seneca; Clark R. Mandigo, State Engr.

Okla., Muskogee—City, A. F. McGarr, Mgr., reported, receives bids Feb. 21 for 7,200 yds. 2½-in. brick or 6-in. plain concrete paving, cost \$18,000; Hugh Dickson, Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., receives bids Feb. 7 for 13,500 sq. yd. 1½-in. Warrenite bitulithic wearing surface, on 6-in. concrete base; B. M. Hart, City Engr. 1-19

Okla., Oklahoma City—State Highway Comm., plans receiving bids in Feb. or Mar. for 2 roads, totaling 15.4 mi.: Highway No. 66—13 mi. from end of pavement, east of Edmond, to county line; Highway No. 266—1½ mi. east of Harrah to county line; 18 ft. wide; 2½-in. vertical fibre brick with asphalt filler, same to be used on 6-6-6 concrete base with 9-in. curb; hot mixed natural rock asphalt surface, 1½ or 2 in. thick on 6-6-6 concrete base; 2-in. hot mixed natural rock asphalt top on 5-in. base; Portland cement concrete pavement; Clark R. Mandigo, State Engr.

Okla., Tulsa—City, Herman E. Newblock, Mayor, plans receiving bids soon to widen and straighten Boston Ave.

South Carolina—State Highway Comm., Ben M. Sawyer, Ch. Highway Commr., Columbia, receives bids Feb. 21 for 13 roads: Spartanburg County—1,985 mi. Portland cement concrete, Route 29, between Thickety and Cowpens; Anderson County—12,453 mi. grading, Route 15, between Anderson and Clemson College; Cherokee County—3,702 mi. grading, Route 29, between Thickety and Cowpens; Chester-Union Counties—1,590 mi. grading and top soil surfacing, Route 7, approaches to Broad River Bridge between Chester and Carlisle; Edgefield County—16,413 mi. top soil surfacing, Route 39, between Edgefield and Modoc; Kershaw County—10,764 mi. grading, Route 26, between

Camden and Kershaw; Lexington County—5.329 mi. grading Saluda Dam Road, between Lexington and Saluda Dam; Lexington-Richland Counties—4.923 mi. Saluda Dam Road, between Saluda Dam and Ballentine; McCormick County—13.497 mi. grading and top soil surfacing, Route 82, between McCormick and Calhoun Falls; Orangeburg County—2.32 mi. grading and sand clay surfacing, Route 39, Springfield to Williston; 4.376 mi. Route 4, Springfield to Aiken County line; 4.302 mi. grading and top soil surfacing, Route 9, between Union County line and Whitestone; .67 mi. grading and top soil surfacing Route 9, through Lockhart; plans from State Highway Engr.

S. C., Chester—Chester County Board of Directors, W. Holmes Hardin, Chmn., reported, will let contract May 1 to pave Carolina Short Route, from Charlotte to Columbia, through county; will sell bonds.

S. C., Florence—State Highway Dept., Ben M. Sawyer, Ch. Commr., Columbia, may build section of Coastal Highway, from Church St., at southern limits of city of Florence, via underpass, crossing Atlantic Coast Line R. R., to connect with Coastal Highway near Jeffreys Creek; from Route 76, Florence-Columbia road, at or near Five Points, to Dargan street extension, near city limits; all Florence County; C. H. Moorefield, Ch. Highway Engr.

S. C., Lexington—City plans paving Main St., full width, cost \$25,000. Address City Clk. See Financial News—Bond Issues Proposed. 1-5

S. C., Orangeburg—Orangeburg County Highway Comm., H. E. Moore, Clk., plans receiving bids soon to hard-surface 22 mi. State Highway No. 6, from Orangeburg city limits to Lexington County line, between Woodford and Swanson.

S. C., Spartanburg—Spartanburg County Highway Comm., reported, plans widening and top-soiling .8 mi. road from Morgan's place on Spartanburg-Pauline-Union Highway, to Willis' gin house on road from Golightly to Stone Station; considering 1.1 mi. road, from Thompson Fork Highway to Glendale Highway, at Cedar Crossing; bridge over Lawson's fork, between Tuck's Bridge and Valley Falls.

Tenn., Jackson—Madison County, reported, plans 15 mi. concrete surface, State Highway No. 1, Nashville Road, from Jackson to Spring Creek; also grading, bridges, graveling, State Highway No. 5, Jackson to Henderson. Address County Commrs.

Texas—State Highway Comm., R. S. Sterling, Austin, Chmn., receives bids Feb. 20, tentative date, for 4 roads: Lavaca County—14.225 mi. 1-in. rock asphalt surfacing, Highway No. 72, Hallettsville to Fayette County line; alternate bids on inverted penetration-triple bituminous surface treatment; W. H. Koether, County Engr., Yoakum; Kerr County—10.678 mi. grading and bridges, Highway No. 41, from Mountain Home, west, to Station 617 plus 00; B. K. Mason, Res. Engr.; Hardeman County—6.708 mi. grading and bridges, Highway No. 5, from Childress County line to Goodlet; John B. Nabors, County Engr.; Wilbarger County—grading, drainage structures and concrete, on highway from Oklaunion to Red River; John B. Nabors, County Engr.; Gibb Gilchrist, State Highway Engr.

Tex., Albany—State Highway Comm., R. S. Sterling, Chmn., Austin, considering road from Albany to northwestern part of Shackelford County; Gibb Gilchrist, State Highway Engr.

Tex., Anderson—Grimes County, Ralph W. Barry, Judge, plans 8.8 mi. gravel surface, Highway No. 90, Madisonville-Navasota road, from point north of Singleton, through Bedias, to Madison County line, estimated cost \$87,000, Oscar A. Seward, Jr., County Engr., Navasota.

Tex., Angleton—Brazoria County, Scott Gaines, Judge, plans highway improvements in Sweeney Dist.; cost \$100,000. See Financial News—Bond Issues Proposed.

Tex., Anson—Jones County, Owen Thomas, Judge, plans 15.39 mi. 18-ft. concrete, Highway No. 18, Road Dist. No. 1, from Stamford to Shackelford County line; estimated cost \$400,000; J. W. Puckett, County Engr., Stamford.

Tex., Athens—Henderson County, Grover H. Curlee, County Judge, plans 18 mi. grading, bridges and concrete, Highway No. 40, from Kaufman County line to Athens, estimated cost \$566,390; S. J. Treadway, Engr.

Tex., Athens—Henderson County, Grover H. Curlee, Judge, plans 26 mi. grading, bridges and concrete, Highway No. 31, from

Smith County line to Athens; estimated cost \$818,132; D. J. Treadway, Engr.

Tex., Beaumont—City Comm., Ollie J. Bloyd, Mgr., plans receiving bids to pave 61 gaps, or leave outs, on improved streets; also to pave Royal Ave. from Ave. A to C; R. C. Black, City Engr.

Tex., Center—Shelby County, F. C. Powell, Judge, plans road building, cost \$200,000. See Financial News—Bonds Proposed. 1-5

Tex., Clarendon—Donley County plans paving. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Columbus—State Highway Comm., R. S. Sterling, Chmn., Austin, reported, plans tarlating 23 mi. Old Spanish Trail from Wharton County line, 4 mi. east of Eagle Lake, to Glidden, Colorado County.

Tex., Corpus Christi—State Highway Comm., R. S. Sterling, Chmn., Austin, plans hard surfacing 8 mi. road between Robstown and Alice, near Aqua Dulce, Nueces County.

Tex., Dallas—City, Barney Davis, Finance Commr., plans widening and straightening Pearl St., between McKinney Ave. and Cedar Springs road; E. A. Wood, City Engr.

Tex., Decatur—Wise County, Carl Faith, Judge, plans 7.7 mi. gravel or stone surfacing, Highway No. 39, Sandy Creek, west, to about 1 mi. south of Chico; estimated cost \$52,000.

Tex., El Paso—State Highway Comm., R. S. Sterling, Chmn., Austin, reported, authorized building 20-mi. Carlsbad Caverns road out of El Paso; ordered grading and drainage structures on Bankhead Highway; E. B. McClintock, El Paso County Judge; Fred Wilson, County Engr.; J. M. Walling, Hudspeth County Judge; Gibb Gilchrist, State Highway Engr.

Tex., Floydada—City, reported, planning 60 blocks paving in business and residential sections. Address City Clk.

Tex., Fort Worth—Tarrant County, Joe Schooler, County Commr., and State Highway Comm., R. S. Sterling, Chmn., Austin, reported, considering building Fort Worth-Jacksboro Highway No. 34 to northwest, being extension of Mansfield road; Gibb Gilchrist, State Highway Engr.

Tex., Groesbeck—State Highway Comm., R. S. Sterling, Chmn., Austin, considering hard surfacing Highway No. 14, through Limestone County; Gibb Gilchrist, State Highway Engr.

Tex., Houston—City, W. A. Moore, Sec., plans widening Capitol Ave., in front of Criminal Courts Bldg.; J. C. McVea, City Engr.

Tex., Huntsville—Walker County, T. H. Singletary, Judge, plans 18.1 mi. concrete, Highway No. 32, from Hintsville to Madison County line; estimated cost \$453,000; D. K. Caldwell, County Engr.

Tex., Lagrange—Fayette County, Theo. Lueders, Judge, plans 7,000 mi. grading and bridges, Highway No. 71, from end of Federal Aid Project No. 319, at Plum, to Bastrop County line; estimated cost \$104,845; R. E. Schiller, County Engr.

Tex., Lefors—Gray County, T. M. Wolfe, Judge, plans 9.5 mi. graveling, grading and bridges, Highway No. 88, from Road Dist. line, south to Pampa; estimated cost \$38,000; C. K. Hasie, Engr., Memphis.

Tex., Palestine—Anderson County, E. H. Shelton, Judge, plans 7 mi. grading and bridges, Highway No. 19, from Elkhart to Houston County line; estimated cost \$36,000; Ed. W. Davis, County Engr.

Tex., Palestine—Anderson County, E. H. Shelton, County Judge, plans 9.75 mi. concrete, Highway No. 19, from Palestine to Elkhart; estimated cost \$270,000; Edw. W. Davis, County Engr.

Tex., Palo Pinto—Palo Pinto County, E. E. Pitts, County Judge, plans 3.81 mi. grading, bridges on Highway No. 108, from Strawn to Erath County line, including bridge across Palo Pinto Creek, and bridge across Mingus Lake, small culverts; total cost \$44,000; M. A. Howell, County Engr.

Tex., Panhandle—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids Feb. 20 for 5,908 mi. concrete, Highway No. 117, Carson County; Larry O. Cox, County Engr.; Gibb Gilchrist, State Highway Engr.

Tex., Panhandle—Carson County, A. A. Callaghan, Judge, plans 10.70 mi. grading and bridges, Highway No. 75, from Lark to point 4 mi. west of Conway; estimated cost \$28,000; Larry O. Cox, Engr.

Tex., Plainview—Hale County, George L. Mayfield, Judge, probably let contract Mar. 1 for paved road north and south through county, through Plainview, Hale Center and Abernathy; plans east and west highway,

No. 28, through county; J. W. Puckett, County Engr.

Tex., Plainview—Hale County, Geo. L. May, Judge, plans 30 mi. grading and bridges, Highway No. 28, from Floyd County line to Lamb County line; estimated cost \$90,000; J. W. Puckett, Engr., Stamford.

Tex., Quanah—State Highway Comm., R. S. Sterling, Chmn., Austin, will let contract Feb. 13 for concrete paving on Highway No. 5, from Quanah, Hardeman County, to Childress County line; Gibb Gilchrist, State Highway Engr.; J. E. Wiley, County Judge; John B. Nabors, County Engr.

Tex., Ranger—City plans about 50 blocks brick street paving. Address City Clk.

Tex., Rockdale—City, Mayor Meyer, plans street paving, cost \$90,000. See Financial News—Bond Issues Proposed.

Tex., San Antonio—City Comm., plans widening Dolorosa and Buena Vista St.; I. Ewig, City Clk.

Tex., San Antonio—Bexar County, Augustus McCloskey, Judge, plans 1-in. asphalt surfacing on Highway No. 81, Sawyers to Wilson County line; estimated cost \$54,000; G. H. Collins, County Engr.

Tex., San Benito—City plans street paving. Address City Clk. See Financial News—Bond Issue Proposed.

Tex., Seymour—Baylor County, J. T. St. Clair, County Judge, plans 13.312 mi. gravel and limestone base, bituminous macadam surfacing, 19-ft. wide highway; estimated cost \$242,000; H. S. Kerr, Engr.

Tex., Shamrock—City plans additional sidewalks; system of paved highways, etc. Address County Clk.

Tex., Texas City—City plans 11 blocks street paving in spring. Address City Clk.

Tex., Throckmorton—Throckmorton County, J. L. Robinson, County Judge, plans 18 mi. grading, bridges and sledged stone base, bituminous macadam surfacing, Highway No. 67-A, from point south of Throckmorton to Stephens County line; estimated cost \$400,000; J. E. Perle, County Engr.

Tex., Vernon—Wilbarger County, J. V. Townsend, Judge, plans 6.435 mi. grading, bridges and concrete pavement, Highway No. 5, from Hardeman County line east, to west end of Federal Aid Project No. 276-A, estimated cost \$227,000; John B. Nabors, County Engr.

Tex., Waxahachie—Ellis County, H. R. Stovall, Judge, plans grading, bridges and concrete pavement on 2 roads: Highway No. 14—5.5 mi. from Dallas County line to Ferris Road Dist. line; 1.75 mi. from Ferris Road Dist. line to Palmer, in Road Districts No. 8 and 9; W. A. Spalding, County Engr.

Tex., Waxahachie—Ellis County Commrs. Court plans improving Highway No. 6, Waco-Dallas road, from Great Lakes to Gulf, Dist. No. 4, cost \$185,000. See Financial News—Bond Issues Proposed. 1-12

Tex., Wichita Falls—City plans receiving bids for concrete walks along Seventh St., in front of auditorium, and from street to main entrance. Address City Clk.

Va., Richmond—City, J. Fulmer Bright, Mayor, considering completing Cary St. and Marshall St. paving; improving streets in tobacco factory district; pave Seventh, Lehigh to Canal, and Q St.; also improvements in North Side, cost \$500,000; R. Keith Compton, Director of Public Works.

Va., Roanoke—City, W. P. Hunter, Mgr., receives bids Feb. 3 for 1200 sq. yd. concrete alley paving; plans from City Engr.

W. Va., Clarksburg—City, Dr. R. L. Osborne, Mgr., reported, plans completing West Pike St. paving in Point Comfort; plans bridge over Elk Creek at West Pike St.

W. Va., Fairmont—Road—Marion County Court, Lee N. Satterfield, Clk., plans building and improving 5 roads in Union Dist.: 2.2 mi. relocating, grading, draining and 14-ft. asphaltum, brick, concrete, macadam, stone block, cinders, oil penetration, etc., on Benton's Ferry-Pleasant Valley road, cost \$60,000; 2.3 mi. 14-ft. Colfax road, cost \$45,000; 1800 ft. 14-ft. Millersville road, cost \$10,000; 6 mi. 9-ft. Kingmont road, cost \$10,000; ¾ mi. 9-ft. Hammond road, cost \$9000; total cost \$134,000. See Financial News—Bond Issues Proposed. 11-3

W. Va., Parkersburg—City, W. E. Stout, Mayor, receives bids Feb. 14 to pave 24 streets, including Camden, Ramsey, Stephenson Sts., Percy, Grand Aves., Franklin Court Alley; some with reinforced, and some with plain cement concrete; also 8-in. sanitary sewers on Stephenson Ave., Juliana and Ann Sts.

W. Va., Princeton—Board of Directors of Chamber of Commerce, reported, recommends following paving: Pave Thorn St., resurface and widen Athens road and South Walker St., etc.; re-surface Mercer St.; grade Ingle-side road within city limits; build asphalt bridge across Virginian Ry. Lately incor-rectly noted under Bluefield, W. Va.

Contracts Awarded

Ala., Bessemer—City, P. M. Matthews, Mayor, reported, let contract to Sullivan, Long & Hagerty, at \$41,321, to pave Twen-tieth St., First to Clarendon, and from Fifth to Eighth Ave.

Ark., Helena—Dick Hogan, Home Insur-ance Bldg., Little Rock, reported, awarded contract for 5500 cu. yds. paving, Crestwood Sub-Division; L. R. Parmalee, City Engr.

Fla., Orlando—Orange County, reported, let contract to Cox & Bryson, Smith Bldg., Langston Construction Co., 108 E. Central Ave., Southland Paving and Construction Co., and Manley Construction Co., all Or-lando, for 51 mi. 60-ft. right of way, 28-ft. wide graded roadbed, limerock base, com-pacted to 6-in. with asphalt and slag sur-face treatment; 1240 sq. yd. concrete, 533,700 sq. yd. surfacing, 59,870 lin. ft. curbing, 326,000 cu. yd. excavation, 37,200 lb. reinforcing steel; estimated cost \$800,000; Charles A. Browne, County Engr.

Fla., Pensacola—State Highway Comn., F. A. Hathaway, Chmn., Tallahassee, reported, let contract to S. G. Collins, Milton, to grade 8.12 mi. Ferry Pass road from Flomaton turn-pike to Escambia Bay. 1-19

Fla., St. Augustine—St. Johns County Commrs., O. P. Goode, Clk., reported, let contract to H. E. Wolfe, Oak St., St. Augustine, at \$107,696, for Macasphalt re-paving, cold surface application, on St. Augustine-Hastings Highway.

Fla., Tampa—Hillsborough County Commrs., W. A. Dickenson, Clk., reported, let contract to Cone Brothers Construction Co., Caesar and Walton St., at \$66,976, for 5 mi. 15-ft. rock base, surface treatment, road, between Ruskin road and Tampa-Hopewell road; A. B. Pimm, County Engr.; G. H. Cornelius, County Judge.

La., Baton Rouge—East Baton Rouge Parish Police Jury, F. A. Woods, Sec., Road and Bridge Committee, let contract to Ham-mond Gravel Co., at \$2.65 per yd., to furnish and spread gravel on 3 roads: 7½ mi. Mill-dale road, 4,500 cu. yd.; 2 mi. Pearl road, 1,200 cu. yd.; 2 mi. Spurgeon road, 1,200 cu. yd. 1-5

La., Delhi—Mayor and Board of Aldermen let contract to W. J. Hourie, Monroe, to pave streets in business district; to Lambert & Haagsett, Shreveport, to gravel streets in residential section. 12-29

La., Jena—Louisiana Highway Comn., Frank T. Payne, Chmn., Baton Rouge, let contract to Harvey & Jones, Jonesboro, at \$43,000 for 7.086 mi. Jera-Nebo road, LaSalle Parish. 12-8

Md., Baltimore—City, Board of Awards, let contract to P. Flanagan & Sons, Twenty-fifth St. and Harford Road, at \$27,878, to pave with sheet asphalt, Collington Ave., Hoffman to Oliver, and Luzerne Ave., Preston to Federal St.; Nathan L. Smith, Highways Engr.; Chas. F. Goob, Ch. Engr.; Wm. P. Broening, Mayor. 1-12

Okla., Ada—City, Lee Daggs, Clk., reported, let contract to Chilcut & Fry Bros., for concrete paving on Johnston Ave.; Black & Veatch, Engrs., Mutual Bldg., Kansas City, Mo.

Tenn., Chattanooga—City Comn., R. H. Crox, Commr. of Streets and Sewers, let contract to Carter & Bryan to hard surface East Third St., from Central Ave. to Greenwood, and from Orchard Knob to Willow.

Tex., Alice—Southwest Bitulithic Co., Gunter Bldg., San Antonio, reported, has contract to pave 3 streets around court-house, and Almond St., Main to South First St. Address City Clk.

Tex., Fort Worth—City, O. E. Carr, Mgr., reported, let contract to firm of L. B. Everett, 3713 Bellaire Drive, and W. R. Hughes, to pave New York Ave., Parkdale and Hattie Sts. 1-5

Tex., Houston—City, W. A. Moore, Sec., let contract to San Jacinto Construction Co., First Natl. Bank Bldg., at \$111,125, to pave Seventy-fifth St., from north line Harris-burg road to south line of Munn St.; 52-ft. wide, 6-in. concrete base, 3-in. brick top-ping.

Tex., Lamesa—City, reported, let contract to Panhandle Construction Co., P. O. Box 481, Lubbock, for 13 blocks brick pavement on North and South First St. Address City Clk. 1-5

Sewer Construction

Sewer construction in LAND DEVELOP-MENT projects involves the expenditure of large sums of money. Under that classifica-tion details of these improvements are re-ported.

Ala., Montgomery—See Roads, Streets, Paving.

Ark., Hot Springs—Board of Public Affairs, reported, will probably have survey made by Black & Veatch, Engrs., Mutual Bldg., Kansas City, Mo., for sewers and sewage disposal plant.

Ark., Mulberry—City, reported, plans in-stalling water and sewerage system; cost \$100,000. Address The Mayor.

Ga., Moultrie—City voted bonds for sewer extensions and for water main extension. See Financial News—Bond Issues Proposed.

Ky., Irvine—Davis Contracting Co., 609 Guaranty Bank Bldg., Lexington, reported, has contract for sewer system. 12-22

Miss., Brookhaven—City, reported, expend \$15,000 for improvements to sewerage system. Address The Mayor.

Miss., Hattiesburg—Chamber of Com-merce, reported, interested in construction of city sewerage system, water supply and fire protection.

Miss., Meridian—C. C. Alexander, Poplar Springs Rd.; A. H. Freiberg, College Heights Civic Improvement Committee, reported, in-terested in installation of sewerage and water works.

Mo., Richland—See Water Works.

Mo., Springfield—E. V. Koch, 2001 Bird St., Joplin, reported, has contract for sewer in Dist. No. 9.

Mo., Trenton—City, Earl Ralls, Engr., re-ported, will prepare estimates and specifica-tions and soon call for bids for extension of Muddy Creek sewer outlet; also make survey for sanitary sewer in southern section.

Okla., Lovell—City, reported, plans voting on \$10,000 sewage disposal bonds. Address City Clk.

Tenn., Bolivar—L. O. Braden Engineering Co., Dyersburg, reported, has contract for engineering work for sewerage system; \$500,000 available.

Tenn., Chattanooga—City, reported, will let contract about March 1 for completion of 97 miles sewer in Twelfth and Thirteenth wards; R. H. Croix, Commr. 1-5

Tex., Alpine—See Water Works.

Tex., Lott—City, reported, plans voting on \$34,000 sewer bonds. Address City Clk.

W. Va., Huntington—S. R. Bishop & Co., Coal Exchange Bldg., has contract at \$80,000 for brick and concrete pipe sewers. 1-26

W. Va., Parkersburg—See Roads, Streets, Paving.

Street Railways

Tex., Port Arthur—Eastern Texas Electric Co., J. G. Holtzclaw, Mgr., Beaumont, ac-quired property of Port Arthur Traction Co., has begun rehabilitation program, will furnish 12 standard Birney safety cars and purchase ten 21-passenger gasoline busses, expending approximately \$250,000.

Va., Lynchburg—Central Public Service Co., 709 S. La Salle St., Chicago, Ill., re-ported, acquired Lynchburg Traction and Light Co.

Va., Roanoke—The Roanoke Railway and Electric Co., which operates local street railway system, heretofore owned by Appa-lachian Electric Power Co. Interests, re-ported, has been acquired by Central Public Service Co., 209 S. La Salle St., Chicago, Ill.; Carl B. Short appointed Mgr.

Telephone Systems

Ala., Reform—J. B. Shannon of New Al-bany, Miss., reported, purchased telephone ex-changes in Pickens County, including Gordo Telephone Co., Reform Telephone Co., Alice-ville and Carrollton Telephone Co., also re-ports to have purchased exchanges in Fay-ette County.

D. C., Washington—Chesapeake & Potomac Telephone Co., Charles T. Claggett, Gen. Com-mercial Supt., reported, soon begin work on addition to building at 722 Twelfth St., N.

W., 75-ft. frontage, contains 65,000 sq. ft. floor space; install dial control telephone sys-tem; new plant including land, building, cen-tral office apparatus, dial system, telephone equipment and outside plant will cost approx-imately \$4,500,000; all telephones now con-nected with Main-Franklin switchboards which are housed in Twelfth St. building will be replaced by new dial instruments, manu-facture and installation of complete equip-ment will require 18 to 20 months, so that new system will not be in use until about Jan. 1, 1930.

Okla., Enid—Southwestern Bell Telephone Co., St. Louis, Mo., reported, plans erecting 2 story and basement, 32x40-ft. addition; re-inforced concrete, terra cotta, fireproof; bids close about March 1; I. R. Timlin, Archt., St. Louis, Mo.; A. C. Mills, Engr., Oklahoma City. 12-22

Tennessee—Intermountain Telephone Co., Wm. McAnge, Jr., Pres., Bristol, reported, plans expending \$232,580 on expansion facili-ties during 1928, including extensions in Johnson City; new cable and central office equipment in Bristol; new central office com-plete in Greeneville; and changing to modern flash system at Elizabethton. 11-24

Tenn., Knoxville—Purchase of Peoples' Telephone Co. by Southern Bell Telephone & Telegraph Co., Atlanta, Ga., reported, ap-proved by Public Utilities Comsn.; Peoples' Telephone Co. operates exchanges at Mary-ville, Morristown, Newport, La Follette, Jef-ferson City, Dandridge, Clinton, Coal Creek, Loudon, Sevierville, Oliver Springs, Philadel-phia, White Pine, Strawberry Plains and Mascot. 11-24

Tex., Gainesville—Southwestern Bell Tel-ephone Co., Jerome McKinly, Dist. Mgr., re-ported, expend \$25,000 on plant improve-ments.

Textile Mills

Ala., Anniston—Cadet Knitting Co., Phila-delphia, Pa., reported, engaged Sidney M. Eledstein & Co., Industrial Engr., Union, S. C., to treble capacity of plant, increase size of present building, install new machinery; will organize Southern Cadet Corp., under laws of Alabama, with paid in capital of \$350,000, \$150,000 of which will be cumulative, preferred stock and balance common stock.

Ark., Little Rock—C. V. Hoke, 4200 Fair-view Rd., reported, rebuild burned textile mill at 2200 E. Sixth St.

Ark., Malvern—International Shoe Co., St. Louis, Mo., F. C. Rand, Pres., will establish textile mill for manufacture of shoe linings; city will furnish site on tract of 300 acres; mill will consume 5000 bales of cotton yearly; cost about \$1,000,000; F. C. Rand wires: "Malvern selected for location textile mill, other details not perfected." 1-22

Ark., Newport—G. A. Buchanan, Sr., and G. A. Buchanan, Jr., St. Louis, Mo., reported, interested in establishment of textile mill.

Ga., Douglasville—Whittier Mills, Chatta-hoochee, reported, erect branch plant.

Ga., Jewell—Jewell Cotton Mills, Gant Bros., owners, reported, rebuild burned cotton mill; brick walls, built-up roof; concrete and wood floors.

N. C., Belmont—Thies Dyeing & Process-ing Co., will complete machinery installation in Feb. and begin package dyeing with Thies system; all process operations will be carried on in a 1 story, daylight constructed build-ing, 217x143 ft.; separate building will house boiler equipment; J. E. Sirrine & Co., Engrs., Greenville, S. C.

N. C., Burlington—Holt, Love & Smith, Inc., capital \$500,000, chartered; J. Spencer Love, Eugene Holt, M. B. Smith.

N. C., Burlington—Albert M. Johnson, 231 S. LaSalle St., Chicago, Ill., reported, com-pleting first unit of rayon plant, broken ground for second unit; all of holdings, about 225 acres, will be enclosed with fence, 10 ft. high, with barbed wire at top; second unit of plant will be 295x100 ft., brick and steel, fireproof doors; saw tooth roof; cement floors; tar and gravel roof; first unit will be used for spinning room, with capacity 2000 lbs. rayon weekly; others have capacity of 5000 lbs. weekly; will build own power house; A. P. McNally, Contr., Framlington, Mass.; company will erect clubhouse, 130x35 ft., brick. 12-15

N. C., Henderson—Stockholders of Hender-son and Harriet Cotton Mills, reported, voted granted option on mills to Flint & Co., Inc., 25 Broad St., New York.

N. C., High Point—Lock-Knit Hosiery Mills Co., capital \$150,000, incorporated; W. H. Slane, O. C. Durland, both Parkway; re-ported, erect 2 story, 60x200 ft., brick hosiery

mill, High and Green Sts.; J. O. Connor, Contr.

N. C., High Point—Thomas Mills, Inc., capital \$250,000, incorporated; W. B. Thomas, R. R. Ragan, reported, soon begin construction of 2 story, brick, hosiery mill, 60x150 ft.; cost \$150,000.

N. C., High Point—Melrose Hosiery Mills, Charles L. Amos, owner, reported, construct \$25,000 addition; 101x66 ft.; 2 stories, brick; addition to be used as office, while present building will be equipped with additional machinery, increasing present output.

N. C., Kings Mountain—A. G. Myers, Citizens Bank Bldg., Gastonia, reported, acquired interest in Cora Cotton Mills.

N. C., Waynesville—Chamber of Commerce, Mrs. Ben West, Sec., reported, interested in establishment of silk mill.

N. C., Wilson—Berger, Sashin & Mandel, Inc., 531 Blake Ave., Brooklyn, N. Y., and associates, reported, plan organizing company to establish rayon knitting plant; Sidney M. Edelstein & Co., Industrial Engrs., Union, S. C.

N. C., Winston-Salem—O'Brien Hosiery Mills Co., capital \$200,000, incorporated; W. L. O'Brien, Wachovia Bank Bldg., L. A. O'Brien, manufacture yarns and hosiery.

S. C., Abbeville—Sidney M. Edelstein & Co., Industrial Engrs., Union, reported, completed plans for mill building for Lund Corp.; building is one of 6 units; will install jacquard looms for manufacturing draperies; complete unit will have 250 looms; R. A. Tuttle Co., 920 Broadway, New York, interested.

S. C., Anderson—J. E. Sirrine & Co., Engrs., Greenville, announce that contract for humidifying, heating and fire protection in weaving building for Appleton Mfg. Co., let to Parks-Cramer Co., 2000 S. Blvd., Charlotte, N. C.; elevator to Park Mfg. Co., Dilworth St., Charlotte, N. C. 1-26

S. C., Clover—Clover Community Club, V. Z. Hambright, reported, negotiating with Brooklyn, N. Y., capitalists for establishment of plant for manufacture of rayon tubing.

S. C., Gaffney—Sol Stutz, 404 Fourth Ave., New York, owner of Hazelton Heights Silk Co., Hazelton, Pa., and W. J. Hadfield, Newburgh Silk Co., Newburgh, N. Y., reported, interested in establishment of mill; manufacture crepe de chine, georgettes, radum, etc.; install first unit of 50 looms and auxiliary equipment; Sidney M. Edelstein & Co., Industrial Engrs., Union. 1-12

S. C., Spartanburg—Industrial Comsn., Chamber of Commerce, reported, negotiating with outside capitalists for rayon converting plant.

Tenn., Bemberg, P. O. Elizabethton—Hughes Foulkrod Co., Schaff Bldg., Philadelphia, Pa., and Pittsburgh, Pa., successful bidders at about \$1,500,000 on main contract for general construction work on American Glanzstoff Corp.'s first unit, now being erected in Happy Valley; Lockwood Greene & Co., Inc., Engrs., 100 E. Forty-second St., New York. 11-3

S. C., Union—Rayon Products Corp., capital \$60,000, incorporated; Philip Sears, Samuel Denmark, has building on S. Gadbary St.; manufacture rayon cloth.

Tenn., Chattanooga—Central Franklin Processing Co., C. R. Ewing, Asst. Mgr., Holzelaw Ave., reported, considering establishment of rayon plant.

Tenn., Chattanooga—National Yarn & Processing Co., T. H. McKinney, Pres., reported, let contract to Mark K. Wilson Co., Tennessee Electric Power Bldg., Chattanooga, for addition to plant for rayon bleaching, finishing and dyeing, with capacity 15,000 lbs. rayon weekly; 1 story; brick; mill construction; floor space of 100x60 ft.

Tenn., Columbia—Whitley Quilt and Mattress Mfg. Co., School and Tenth Sts., has building for manufacture quilts, mattresses, etc.; have acquired wooling machines, Garnett machines and condensers from Southern Textile Machine Co., 215 S. Laurens St., Greenville, S. C. See Want Section—Machinery and supplies.

Tenn., Murfreesboro—Sidney M. Edelstein, Industrial Engrs., Union, S. C., through Caldwell & Co., Nashville, reported, completing financing silk weaving corporation, to be known as J. Frank Corp.; erect building.

Tex., Houston—Houston Hosiery Mills, 607 Franklin St., increased capital \$50,000 to \$79,000; install 25 knitting machines. L. A. Parsons, Archt.-Engr. in charge. 9-29

Va., Martinsville—F. E. Walton, H. A. Ford and associates, reported, interested in establishment of plant for manufacturing rayon silk underwear.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Fort Smith—City Comsn., reported, receives bids in office of J. H. Parker, Mayor, Feb. 10 for Poteau River dam. 11-17

Ark., Mulberry—See Sewer Construction.

D. C., Washington—District Water Comms., reported, lay water supply system for Federal buildings to be located in triangle south of Pennsylvania Ave.; work includes 24-in. main on B St. S. of triangle, running from 24-in. main at Seventeenth St. to 20-in. main at Missouri Ave. and Sixth St.; will soon ask for bids for material; cost \$160,000.

Fla., Apalachicola—City, C. T. Lanier, Chmn., Committee, plans voting Feb. 9 on \$15,000 water main bonds.

Fla., Bonifay—City, reported, have plans prepared by J. B. McCrary Engineering Corp., Atlanta, Ga., for sanitary sewer system and for extension of water mains for fire protection; may vote on bonds.

Fla., Cedar Keys—City let contract to W. J. Bryson Paving Co., 239 W. Adams St., Jacksonville, for water works, including storage reservoir, pumping plant, and elevated tank; cost \$150,000; George A. Main, Engr., 112 Baker St., Daytona Beach.

Fla., Key West—Neil Scroggins, reported, granted franchise; will begin drilling operations for water system.

Ga., Griffin—City Comsn., reported, entered into contract with Griffin Waterworks Co. for construction of water system extending to Flint River, subject to ratification by people Feb. 29; company will issue \$300,000 bonds. 1-26

Ga., Moultrie—See Sewer Construction.

Ga., Sasser—City, J. H. Lewis, Clk., reported, votes Feb. 10 on \$10,000 water works bonds.

La., New Orleans—Hardie-Tynes Mfg. Co., 800 N. 28th St., Birmingham, Ala., reported, low bidder at \$24,910 for furnishing pumps and valves for river pumping plant. 12-8

Miss., Hattiesburg—See Sewer Construction.

Miss., Meridian—City, Water Dept., J. M. Slaughter, Supt., reported, completing plans for extension of water to recently annexed territory, including settling basin, cost \$20,000; additional filter house, \$30,000; later may vote on \$175,000 bonds.

Miss., Wiggins—City, reported, call for bids March 15 for water works system; Morgan & Co., Inc., 428 Edwards Bldg., Jackson, Engr.; cost \$60,000.

Mo., Richland—City, reported, plans water works and sewer system; may vote on \$65,000 bonds; J. F. Davis Engr. Co., 2188 Railway Exchange Bldg., St. Louis, Engrs.

N. C., Durham—Glamorgan Pipe & Foundry Co., Lynchburg, Va., will probably receive contract for pipe for water mains at \$248,000. 1-19

N. C., Greensboro—City, C. W. Smedberg, Supt. Water Dept., let contract for pumping equipment, in connection with water expansion program, to Moore Steam Turbine Corp., Wellsville, N. Y.; boiler equipment, to McBurney Stoker & Equipment Co., rejected bids for stack, reopen new bids for stack and also for stoker and ash handling equipment, Feb. 7; later plant to issue specifications for necessary discharge and steam piping, together with recording apparatus, such as water meters and steam flow gauges. 1-19

Okla., Ada—George M. Brown, McAlester, has contract for sections 1 and 3 consisting of putting roof over springs and roof over clear well or reservoir and waste or overflow line to city lake at approximately \$45,000; Jay Randolph Construction Co., Jacksonville, Fla., contract for sections 2 and 4 consisting of flow line of 20 and 24-in. pipe from springs, distance of 12 miles and for extension of city mains at approximately \$340,000.

Okla., Henryetta—City, reported, considering extension of water and sewer system; present plans include dam on Wolf Creek, 1450 ft. long, 145 ft. wide at base, 25 ft. wide at top; impound 250 acres; cost about \$90,000; erect 1,000,000 gal. storage tank, where water will be treated.

Okla., Oklahoma City—City, reported, will have plans ready for bids about March 1 for water works, conduit and filtration plant, cost \$900,000; water mains, \$100,000. Address The Mayor. 1-19

Okla., Weleetka—City voted \$45,000 bonds for improvements and extension to electric light system and water works. See Financial News—Bond Issues Proposed.

Tenn., Kingsport—City, votes March 3 on \$400,000 water bonds. See Financial News—Bond Issues Proposed.

Tex., Alpine—City plans voting on water and sewer bonds. See Financial News—Bond Issues Proposed.

Tex., Coleman—City, S. R. Hale, Supt., light plant, reported, install 500 h.p. boiler; may enlarge plant.

Tex., Denton—City, W. N. Harris, Engr., expend \$10,000 for improvements to water system; all work by city's forces. 1-26

Tex., Graham—City, reported, plans construction water works system, including dam, mains, etc. Address The Mayor.

Tex., O'Donnell—City, W. H. Crunk, Sec., plans water works; Gantt Engineering Co., Engrs. 12-15

Tex., Taylor—City Comsn., reported, negotiating for Taylor Water Co.'s plant.

Tex., Texas City—Texas Gulf Power Co., reported, plans extending water mains.

Woodworking Plants

Ala., Mobile—Ceilings and Sidings—Stover Manufacturing Co., capital \$150,000, incorporated; G. W. Adams, Andalusia, Ala.; F. B. Short, Flat Iron Bldg., Asheville, N. C.; H. M. Hempstead, First Natl. Bank Bldg., Mobile, reported, will take over property of Stover Lumber Co. at Crichton and distribute products east of Mississippi river.

La., De Ridder—Crates—Stanley Brothers, reported, plans establishing plant to manufacture crates for oranges, etc., 30x65-ft., machinery ordered; capacity 2000 crates daily.

Mo., Neosho—Price Box & Basket Co., incorporated; W. T. Price, W. R. Faucett, I. F. Price.

North Carolina—Tool Handles, etc.—Hickory Wood Products Co., R. F. Faucette, 507 E. Third St., headquarters at Gastonia, reported, establish plant at Sawmills; has building under lease with option to buy, manufacture tool handles, brushes for sweeping machines, etc.

N. C., Rural Hall—Gem Chair Co., capital \$100,000, incorporated; E. A. Helsabeck, E. C. Smith, Chas. R. Helsabeck.

N. C., Granite Falls—Wood Products—Hickory Fibre Co., capital \$25,000, incorporated; W. E. Lester, R. E. Lester, R. F. Faucette, Gastonia.

N. C., Randleman—Harper Chair Co., capital \$50,000, incorporated; J. J. Harper, Bennett, N. C.; E. O. Hussey, Frank Johnson, both Randleman.

FIRE DAMAGE

Ark., Manila—High School building; loss \$25,000.

D. C., Washington—Office building, hangar and flying equipment, Bolling Field. Address The Commandant.

Fla., Arcadia—Two dwellings owned by R. J. Holloway; Will Mansfield's residence; total loss \$12,000.

Fla., Tampa—Bostain Hotel, owned by J. M. Harvey; loss \$200,000.

Fla., Venice—Woodmere Lumber Co.'s mill, loss \$100,000.

Ga., Thomasville—Winter residence of H. K. Devereaux, Cleveland, O.; loss \$100,000.

Ky., Henderson—Eugene O'Donnell's barn; loss \$20,000.

Ky., Lexington—J. M. Sullivan Lumber & Planing Mill at Jackson and Shelby Sts., loss \$15,000.

Ky., Louisville—Residences of W. Edw. Ashby and G. R. Shephard, Eighteenth St. Rd.; loss \$26,000.

Ky., Paducah—School at Lang destroyed by tornado; McCracken County Board of Education.

La., Alexandria—Rapides Packing Co.'s boiler room, storage and hide house, loss \$15,000 to \$20,000.

La., Bastrop—Jim Wilson's residence.

La., New Orleans—H. Well Baking Co.'s garage and stable, 4823 Perrier St., loss \$10,000.

Md., Aberdeen—W. S. Hall's residence on W. S. Thompson farm.

Md., Cambridge—School building at Eldorado; address Dorchester County Board of Education.

Md., Clinton—Outbuildings, produce and stock at Auth farm, near Redd's Corner, owned by John N. Auth, Treas., N. Auth Provision Co., 623 D St. S. W., and A. C. Hammer, Center Market, both Washington, D. C.; loss \$80,000.

Md., Lansdowne—Mrs. Augusta Kabernagle's residence, Hammond Ferry Rd.; loss \$6,500.

Md., Riverdale—M. Greenbalt's residence, Edmonston Rd., East Riverdale; loss \$8,000.

Md., Williamsport—John B. Beard's residence.

Miss., Greenwood—Used car department of Moore and McDavid Co., 623 Main St.; loss \$10,000; building owned by L. S. Barnes.

Miss., Laurel—Electric Service Co.'s building on Oak St.; loss \$40,000.

Miss., Yazoo City—Canal Street Service Station.

Mo., Gray's Ridge—Hill General Merchandise Store; post office building; loss \$15,000.

N. C., Carthage—Girls dormitory of Eureka Farm Life School.

N. C., Hendersonville—Abattoir building owned by A. F. Justus; loss \$10,000.

N. C., Mebane—First Baptist Church, Rev. A. C. Hamby, Pastor.

N. C., Monroe—Portion of Monroe Hatchery, owned by R. D. Rowell.

Okl., Roff — Grade school building; loss \$45,000; address Board of Education.

S. C., Anderson—Cotton warehouse of Tóx-away Mills; loss \$15,000.

S. C., Chester—Dr. C. A. McLurkin's residence, Halseville section, Chester County.

S. C., Laurens—O. Sitgreaves' residence, W. Main St.

S. C., Summerville—Green Gables, residence of S. Lewis Simons.

S. C., Sumter—Hampton Apartment building owned by H. J. Harby; loss \$100,000.

Tenn., Memphis—Portion of plant of J. C. Woolridge Lumber Co.; loss \$30,000.

Tenn., Nashville—Nashville Iron & Metal Works, 714 Fourth Ave. N.; loss \$25,000; building owned by Gerald B. Howard, Shelby Ave.

Tenn., Sewanee—Gymnasium of University of the South; loss \$15,000.

Tenn., Union City — Factory of O'Cedar Mop Corp.; loss \$10,000.

Tex., Abernathy — Abernathy Gin Co.'s plant; loss \$25,000.

Tex., Dallas—Brannon Dyeing & Dry Cleaning Co.'s building, cor. Peak and Bryan St.

Tex., Houston—Three Government airplane hangars at Ellington Field; loss \$20,000; Sergeant Hugh Barr, caretaker of field.

Tex., Huntsville — Wagon factory of the Texas Penitentiary; address The Warden.

Va., Lillian—Store of T. M. Lewis.

Va., Winchester—Chas. R. Fogle's residence.

W. Va., Charleston—Morgan Lumber and Manufacturing Co.'s plant; loss \$25,000.

W. Va., Huntington—W. T. Carson Battery Co.'s garage, 1331 Third Ave.; loss \$100,000.

W. Va., Mullens—Building occupied by Bodell Heating & Plumbing Co. and Puckett's Inn.

W. Va., Point Pleasant—Virginia Malleable Iron Co.'s office building.

Churches

Ala., Decatur—Central Baptist Church, J. H. Crow, start work at once on brick and stone building.

Ark., Piggott—Methodist Church, J. W. Hamilton, Chmn., Bldg. Comm., erect \$25,000 to \$30,000 building.

Ark., Prescott — Methodist Church opens bids Feb. 14 for brick and terra cotta building, W. Second and Walnut Sts.; 2 stories, oak floors, concrete foundation; cost \$58,000; furnishings, equipment, etc., \$10,000; individual steam gas plant; Witt, Seibert & Halsey, Archts., Texarkana. Address J. W. Teeter. See Want Section—Building Materials and Equipment. 1-26

Fla., Coral Gables—First M. E. Church, Rev. John F. Phillips, Pastor, having plans drawn for Sunday school as second unit of group, Donatello St. near Sistina St.; Spanish type, 2 stories. 5-19

Ga., Macon — Second Street Methodist Church, Rev. W. A. Kelley, Pastor, plans \$50,000 building; brick, composition roof, steam heat; remodel auditorium for Sunday school rooms; Dennis & Dennis, Archts., 556 Mulberry St.

La., Shreveport—Central Christian Church, H. S. McCall, member, Bldg. Comm., erect Sunday school and remodel present building.

Miss., Jackson—Griffith Memorial Church, Rev. Scotchie McCall, Pastor, plans building, Langley Ave. and W. Silas Brown St.

Mo., Gideon—Methodist Church, Rev. W. E. Brown, Presiding Elder, plans \$25,000 church.

N. C., Salisbury—Presbyterian Church, reported, having plans drawn by Hobart Upjohn, Grand Central Terminal, New York, for \$600,000 church and Sunday school; fireproof, steel frame, concrete footings, stone, 1 and 3 stories and basement, concrete, tile and wood floors, slate and composition roof, steam heat; Mr. Upjohn advises: "Sketches not submitted." 11-17

N. C., Winston-Salem—St. Paul's P. E. Church, Rev. R. E. Gribblin, Rector, probably soon let contract for \$500,000 building, Summit and Five-and-One-Half Sts.; stone, 152.11 x 99.6 ft., fireproof, rein. concrete floors, slate aisles, cut stone columns and piers, Vermont slate roof, 110-ft. tower equipped for bells, auditorium seat 803; Cram & Ferguson, 248 Boylston St., Boston, Mass., and Harold Macklin, Winston-Salem, Archts. 11-17

Okl., Konawa—Church of The Nazarene erect building; material on ground. Address The Pastor.

Tenn., Knoxville—Emerald Avenue M. E. Church, Rev. F. L. Browning, Pastor, erect brick building; 2 stories, 60x200 ft., wood floors, concrete foundations, slate roof, vapor heat; R. F. Graf & Sons, Archts.-Engrs., Journal Bldg. 1-26

Tex., Bartlett—First Baptist Church plans \$100,000 building. Address The Pastor.

Tex., Dallas—Oak Lawn Methodist Church, Rev. D. E. Hawk, Pastor, plans \$50,000 Sunday school; raising funds.

Tex., Fort Worth—South Summit Church of Christ, Gordon and Dewitt Sts., Rev. Tom Murray, Pastor, plans building, site present structure.

Tex., Harrisburg—Baptist Church has low bid for \$32,000 building from W. L. Goyen. Post-Dispatch Bldg.; concrete, brick and frame, 1 and 2 stories, 38x56 ft., with 40x56-ft. ell, concrete and wood floors, concrete foundation, wood roof; L. A. Glover, Archt., 623 Binz Bldg.; electrical work let to Barden Electric & Contracting Co.; plumbing, Warren Shivers. See Want Section—Building Material and Equipment. 1-26

Tex., Houston — First Methodist Church having bids for \$500,000 Sunday school refigured by 5 lowest bidders, bids in Feb. 3; Jas. Ruskin Bailey, Archt., 1606 Main St. 9-1

Tex., LaGrange—Hostyn R. C. Church purchased site; reported soon improve. Address The Pastor.

Tex., Midland — Baptist Church, Colored, Rev. Chas. Taylor, Pastor, plans church and school.

Tex., Midland — Methodist Church erect Sunday school annex. Address The Pastor.

Tex., Midland — Valley View Community Baptist Church erect building. Address The Pastor.

Tex., Palestine—Grace Methodist Church, Rev. J. E. Buttrill, Pastor, erect 2-story Sunday school annex.

Tex., Pampa—First Baptist Church, Rev. D. H. Truhitte, Pastor, will not let contract before March 1 for \$100,000 building.

Tex., San Antonio—Highland Park Lutheran Church erect \$50,000 church and Sunday

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Orange Park—Loyal Order of Moose establishing colony under supervision of J. A. Cassidy, American Bldg., Baltimore, Md., Chmn. of Board of Regents; purchased number buildings and plans to expend \$80,000 for stuccoing, plumbing, electrical work, etc.

Md., Baltimore—Young Men's Christian Assn. of Johns Hopkins University plans building on campus to be called Levering Hall; tentative plans by Palmer, Willis & Lambdin, 513 N. Charles St., call for 2 stories, lobby 72x34 ft., hall 34x60 ft., library and reading room 21x46 ft., cafeteria 44x60 ft.; fireproof; cost \$225,000; raising funds. 2-17

Md., Cumberland—Cumberland Lodge No. 63, B. P. O. E., receives bids Feb. 25 from local contractors for clubhouse, S. Centre St.; brick, stone trim, 2 stories and basement, 42x100 ft.; R. Holt Hitchins, Archt.

Miss., Tylertown—Ancient Free and Accepted Masons, D. M. Ginn, Chmn., Bldg. Comm., receives bids Feb. 4 for temple; concrete, brick and frame, 3 stories, 40x80 ft., steam heat; stores with plate glass windows on first floor; E. C. Hearson & Sons, Archts., 121½ W. Pine St., Hattiesburg.

Mo., Cartersville—Charles B. Wood Post, American Legion, A. M. Baird, Comdr., plans clubhouse.

Mo., Poplar Bluff—Knights of Pythias and Independent Order Odd Fellows erect \$15,000 clubhouse.

Mo., Sedalia—Sedalia Lodge No. 125, B. P. O. E., reported, start work at once on \$60,000 building; Clifford H. Johnson, Archt., 208 Citizens Natl. Bank Bldg. 10-27

Tenn., Nashville—Young Women's Christian Assn., Miss Ina Sherrebeck, Gen. Sec., plans wing to building.

W. Va., Bluefield—Bluefield Lodge No. 1079, L. O. O. M., Alex B. Mahood, L. C. Bldg., architect, member of Bldg. Comm., erect building, S. Mercer St. and McCulloch Ave.; tentative plans by Mr. Mahood.

Bank and Office

La., New Orleans—Motion Picture Advertising Service Co., Inc., W. Johnson, Pres., 2301 Tulane Ave., erect \$45,000 addition to building, 2309-13 Tulane Ave.; brick and stucco, concrete foundation, steel sash, steel and iron work; architect not selected.

Tenn., Athens—Citizens Natl. Bank, G. F.

Lockmiller, Pres., purchased adjoining building; remodel for additional quarters.

Tenn., Chattanooga—Hamilton National Bank, Broad St., reported, erect addition to building; cost about \$500,000.

Tenn., Memphis—Memphis Branch, Federal Reserve Bank of St. Louis, W. H. Glasgow, Managing Director, Memphis branch, erect \$450,000 building, probably Third and Jefferson Sts.; about 80x100 ft.; to engage local architect and contractor.

Tex., Austin—O. O. Norwood, Seventh and Colorado Sts., have plans ready in about 70 days for 12-story medical and professional office building; steel frame and concrete, 80x92 ft., concrete foundation, 3 passenger elevators, steam heat; Giesecke & Harris, Archts., 207 W. Seventh St.; M. Wilson, Engr., care Archts. See Want Section—Building Material and Equipment. 1-26

Tex., Corpus Christi—W. E. Pope, care Corpus Christi Times, has low bid at \$198,750 from Runke Construction Co., Corpus Christi, for 8-story printing plant and office building; heating bid, Braden-Hudson-Wangler Co., 305 E. Commerce St., \$7,897; plumbing, A. H. Shafer, 418 N. St. Mary's St., \$12,555, both San Antonio; electrical work, Wilkens Electric Co., 513 Schatzel St., Corpus Christi, \$6,301; elevators, American Elevator Co., 117 Cedar St., New York \$15,609; refrigeration, Kelvinator Div., Electric Refrigeration Co., Detroit, \$1,600; Cutler mail chutes and Hammel radiators, Wm. S. Seng, Bldrs. Exchange Bldg., San Antonio, \$1,180 and \$4,630; Kenneth E. Ahler, Archt., 624 Mesquite St., Corpus Christi; W. E. Simpson & Co., Inc., Consult. Engrs., Nat'l. Bank of Commerce Bldg., San Antonio. 1-5

Tex., Dallas—Jefferson Bank & Trust Co., Oak Cliff, Robt. G. Suddarth, Vice-Pres., leased first floor of Texas State Mutual Bldg., W. Jefferson Ave.; remodel, work to start May 1.

Tex., Junction—Junction State Bank has low bid at \$25,876 from Ray & Cowsett for bank and office building; plumbing bids, W. G. Brown, \$933; heating, Kirkwood & Wharton, 456 Main St., San Antonio, \$3,276; electrical work, Schroeder Electric Co., 119 Broadway, \$869; Adams & Adams, Archts., Builders Exchange, both San Antonio. 1-19

Tex., Midland—T. S. Hogan receives bids Feb. 7 for 12-story Petroleum Bldg.; Gothic type, cost \$700,000, 125x75-ft., brick, stone, steel and rein. concrete, fireproof; Wyatt C. Hedrick, Inc., Archt., First Nat'l. Bank Bldg., Fort Worth.

school, New Braunfels Ave. and Hammond St.; concrete and brick; Seutter & Simons, Archts., Builders Exchange Bldg.

Tex., San Marcos—First Baptist Church, Rev. R. L. Powell, Pastor, plans to complete \$35,000 building; raising funds; Will N. Noonan, Archt., Builders Exchange Bldg., San Antonio.

Tex., Vernon—Church of Christ, K. G. McDonald, member, Bldg. Comm., plans \$40,000 building.

Tex., Wellington—First Presbyterian Church erect \$20,000 brick building. Address The Pastor.

Tex., Wichita Falls—Highland Heights Baptist Church, S. R. Ludolphus, member Bldg. Comm., erect brick veneer Sunday school; 2 stories, 42x65 ft.; Pate & Thompson, Archts., City Natl. Bank Bldg.

Va., Roanoke—Jefferson Street Baptist Church, Rev. H. F. Gilbert, Pastor, plans building.

City and County

Ala., Mobile—American Legion and Junior Chamber of Commerce interested in municipal auditorium.

Ark., Pine Bluff—City defeated \$175,000 library bonds; Mitchell Selligman, Archt., 206 Pine St. 1-12

Fla., Clearwater—City Commission, John McMullen, Police Chief, erect jail and fire station, site present jail, Garden Ave.; also install \$25,000 fire alarm system.

Fla., Lake Wales—City erect \$50,000 city hall; probably 2 stories; Geo. E. Jacobs, Archt., drawing plans.

La., Algiers, New Orleans—Behrman Memorial Assn. probably call for bids latter part of Feb. for gymnasium, Newton St.; rein. concrete, brick, stone trim, 1 story, 70x150 ft., rein. concrete foundation, concrete floors, steel trusses and sash, struct. steel and iron work, shower baths, composition roof; plans by A. S. Montz, City Archt., City Hall Bldg.

La., Harahan—City, S. H. Mayo, Mayor, having plans drawn by Wm. R. Burk, Archt., Balter Bldg., New Orleans, to remodel present school into courthouse and jail; masonry, carpentry, concrete foundation, plastering, painting, sheet metal work, flooring, plumbing, heating and wiring; plans probably completed within 60 days.

Miss., Ackerman—Choctaw County Board of Supervisors, M. Spiva, Pres., add several new rooms and remodel top of courthouse.

Miss., Jackson—City Commission, Peter A. O'Brien, City Engr., plans stadium.

Mo., St. Charles—Park Board, Edwin J. Ell, Sec., receives bids Feb. 6 for St. Charles County Memorial Hall, Blanchette Park; plans, specifications, form of contract, etc., from Sec.

N. C., Kinston—State Industrial Farm Colony for Women, Richard F. Churchill, Chmn., Board of Directors, approved tentative plans by Chas. C. Hook, Archt., Johnston Bldg., Charlotte, for buildings for colony; \$60,000 available. 1-5

N. C., Lenoir—Caldwell County Board of Commr. remodel courthouse; Martin L. Hampton, Archt., Lenoir and Statesville, N. C., and Royal Palm Hotel Casino, Miami, Fla.

Okla., Muskogee—City, Paul Williams, Mayor, voted \$400,000 city hall bonds. 12-22

Tex., Alice—City, A. S. Anderson, City Clk., probably soon let contract for \$10,000 to \$13,000 city hall; hollow tile, stucco and rein. concrete, 2 stories; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 11-10

Tex., Arlington—City Council erect brick city hall, W. Main St.

Tex., Brady—City receives bids Feb. 15 for city hall and fire station; cost \$40,000, fireproof; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 12-15

Tex., Corpus Christi—City Council erect 2 fire stations.

Tex., Houston—City, J. C. McVea, City Engr., will expend \$10,000 to tear down west wall of old Scanlon Bldg.; then let contract to rebuild wall and restore building; will be used in connection with \$400,000 Farmers' Market, for which Don Hall Construction Co., Cotton Exchange Bldg., has contract for substructure. 1-12

Tex., Matamoras—City plans fire station. Address City Council.

Tex., Vernon—City Commission considers erecting city hall; receiving architects' sketches.

Va., Richmond—City Council selected Baskerville & Lambert, Travelers Bldg., as architects for preliminary drawings for \$500,000

Dooley Memorial Library, First and Franklin Sts. 6-2

Dwellings

Ark., Camden—Mrs. Walter Ritchie plans additional rent houses.

Ark., Little Rock—Sun Building & Developing Co. incorporated with W. S. Daniel, 212 W. Second St., as president; plans dwellings in connection with development, Pulaski Heights.

D. C., Washington—H. P. Huddleson, Woodley Apt., has permit for \$15,000 residence, 2757 Brandywine St., N. W.; 2 stories, stone and frame.

D. C., Washington—Carl W. Markham, 3010 Cleveland Ave., N. W., has permit for \$21,000 brick residence and garage, 4715 Seventeenth St., N. W.; 2 stories, brick.

D. C., Washington—O. R. Pederson, 1622 Newton St., N. E., has permit for 2 brick dwellings, 1710-14 Otis St., N. E.; 1 story; total cost \$12,500.

Fla., Daytona Beach—R. E. Olds, Halifax Ave., reported, erect residence.

Fla., Miami Beach—Wm. Taradash, Pres., Sterling Mfg. Machine Works, Chicago, Ill., plans \$100,000 residence, 52d St.

Fla., St. Petersburg—H. B. Smits, Florida Theater Bldg., erect residence, South Shore; 10 rooms, 3 baths, 2 stories, electric and steam heat, fireplaces.

Fla., St. Petersburg—Miss Lillian L. Mayo, 2741 Second Ave., N. and Mrs. Marceline M. Bennett erect \$35,000 residence, Sunset Dr., Pasadena.

Fla., St. Petersburg—Edgar Tapping, West Coast Title Bldg., erect \$25,000 residence, Snell Isle.

Fla., Tampa—J. R. Clements, 410 Hugh St., erect \$10,000 residence.

Ga., Atlanta—T. H. Chastain, 335 Angier Ave., N. E., erect 2 brick veneer dwellings, 1676-80 Westwood Ave., S. W.; 1 story, 7 rooms and bath; total cost \$12,000.

Ga., Atlanta—A. D. Marbut, care Marbut & Williams Lumber Co., 920 Marietta St., erect 4 brick veneer dwellings, 1298 Donnelly Ave., S. W., and 1297-1303-07 Beecher St., S. W.; 1 story; total cost \$20,000.

Ga., Atlanta—L. H. Parris, 2554 Peachtree Rd., N. W., has low bid for \$30,000 residence from P. D. Christian, Inc., Wynne-Claughton Bldg.; face and common brick, 2 stories and basement, 68x34 ft.; Jas. T. Mitchell, Archt., 140 Peachtree St.; stone tile for basement from Keeling-Cassidy Brick Co., 818 Williams Mill Rd., N. E., Atlanta.

Ky., Louisville—L. C. Miller, 113 S. 42d St., erect 5 dwellings, 18th and Lee Sts.; cost \$2500 each.

La., New Orleans—Albert T. Carey, 3517 Tulane Ave., erect single raised residence.

La., New Orleans—Henri G. DeFraitres, 304 Camp St., erect residence, 524 Nashville Ave.

La., New Orleans—L. T. Frantz, 1574 Apricot St., erect single raised cottage, Leonidas St. near Apple St.; sub-bids about 2 weeks on plumbing, sheet metal work, lumber, plastering, millwork, carpentry, hardware, hot water heater.

La., New Orleans—A. April, 1056 N. Carrollton Ave., erect \$16,000 stucco raised residence, Versailles Blvd. near Claiborne St.; tile and composition roof.

La., New Orleans—J. A. Canal, 3710 Constance St., erect 1-story frame dwelling, Delores and Jefferson Aves.; Jones, Roessle & Olshner, Archts., Maison Blanche Bldg.; bids in.

La., New Orleans—J. A. Martin, 2601 Rocheblave St., erect double residence, Rocheblave St. near Arts St.

Md., Baltimore—Dr. J. Arthur York, 1107 St. Paul St., erect residence, Tunbridge Rd.

Md., Baltimore—Milton R. Lerch, 5206 Harford Rd., erect 8 stucco dwellings and garages, 3000 block Northway Drive; total cost \$28,000.

Md., Baltimore—Otto F. Unger, 6 W. Franklin Ave., erect 6 frame dwellings and garages, 4616-20 and 4700-04 Franklin Ave.; total cost \$25,000.

Md., Baltimore—Clarke Realty Co., 1504 Pennsylvania Ave., in Spring erect number bungalows and cottages bet. Hillen Rd. and Burke and Aigburth Aves., Aigburth.

Md., Baltimore—David Kleiman, Calvert Bldg., erect 10 dwellings, Loyola Park.

Md., Baltimore—Real Estate Holding Co. erect about 50 dwellings, Loyola Park, Park Heights Ave. development.

Miss., Crystal Springs—Methodist Church, Rev. L. E. Alford, Pastor, erect brick veneer parsonage.

Miss., Natchez—Joseph Dixon, 700 N. Rankin St., may erect several dwellings, Park Ave., Clifton Addition.

N. C., Charlotte—Carolina Crushed Stone Co., Bizzle Rd., erect 50 tenant houses, Toomery Ave., S. Mint and S. Tryon Sts.; total cost \$19,000.

N. C., Winston-Salem—C. H. Jones, E. Third St., erect 12 dwellings, Vargrave St.; 5 rooms each; total cost \$12,000.

Okla., Tulsa—R. P. Garland, reported, erect residence, Oakview Estates.

Okla., Tulsa—Herbert P. Smith, Mgr. Land Dept., Sinclair Co., plans residence, Oakview Estates; work probably start in year.

S. C., Sumter—H. J. Harby, Vice-Pres., R. L. Moore Lumber Co., Inc., number brick row houses to replace apartment building noted burned.

Tenn., Memphis—Geo. Land, care Hardwood Mfrs. Inst., Bank of Commerce Bldg., having plans drawn by Anker F. Hansen, Archt., Shrine Bldg., for \$10,000 residence; probably call for bids around Feb. 15; brick veneer, 1 story and basement, oak floors, composition or tile roof, tile bath, steam heat. 1-26

Tex., Amarillo—G. W. Qualls erect residence, 2100 block Monroe St.; cost about \$10,000.

Tex., Amarillo—R. R. Rollins erect six \$9000 dwellings, 2100 block Monroe St.

Tex., Amarillo—O. S. Thomas erect residence, 2100 block Monroe St.; cost about \$10,000.

Tex., Austin—Roy Smith, 1106 San Antonio St., erect \$10,000 residence, Enfield Addition; brick veneer, 1 story, concrete foundation, edge grain pine and tile floors, asbestos shingle roof; Roy L. Thomas, Archt., 903 Littlefield Bldg.; bids in.

Tex., Corpus Christi—O. E. Arnim erect brick veneer residence and garage; 2 stories, 42x28.6 ft., concrete footings, tile and wood floors, tile roof; frame and stucco garage, 2 stories, about 20x24 ft.; Hamon & Co., Archts., City Natl. Bank Bldg., receiving bids.

Tex., Dallas—Carl Wallace, 1100 N. Clinton St., erect \$15,000 residence, 1204 N. Windomere St.; 12 rooms, brick veneer.

Tex., Edinburg—R. B. Suttle erect 4 dwellings; brick veneer, hardwood floors, composition roofs; A. H. Wooldridge, Archt., McAllen.

Tex., Fort Worth—H. R. Clay erect \$11,500 brick veneer residence, 2211 Windsor Place.

Tex., Houston—Leo Dittman erect 12 dwellings, Farmer St.; 4 rooms, frame; total cost about \$10,000.

Tex., Houston—H. C. Vogt, 812 Hawthorne Ave., erect \$10,000 brick veneer dwelling, 2415 Binz St.; 8 rooms.

Tex., Houston—Geo. T. Broun, 4516 Main St., erect 2 brick veneer dwellings and garages, 1618 Milford and 2417 Pelham Sts.; 6 rooms and bath, 2 stories; cost \$8500 each.

Tex., Pharr—Geo. Wittbold erect \$15,000 brick and stucco residence.

Tex., San Antonio—J. H. Dufner, Medical Arts Bldg., erect 8-room residence, Mulberry St.; cost about \$10,000.

Tex., San Antonio—Mrs. Tillie Kircher, 244 Ray Ave., plans frame residence, Grapeland St. near Rosemary St.; 1 story, 5 rooms.

Tex., San Antonio—Mrs. Amye Bozarth, 815 Park Hill Drive, East, erect frame and stucco dwelling, Park Lane and El Prado Drive; 2 stories, 10 rooms; Glen C. Wilson & R. H. H. Hugman, Archts., Texas Bldg.

Tex., San Antonio—J. E. Brinkmeyer, Cashr., Fort Sam Houston State Bank, erect residence, Olmos Park Estates.

Tex., San Antonio—P. F. Allen, 810 San Pedro Ave., erect \$15,000 residence, Olmos Park Estates; frame and stucco, 2 stories, 8 rooms; Phelps & DeWees, Archts., Gunter Bldg.

Va., Hopewell—Hopewell Realty Co., Inc., W. B. Bahl, plans dwellings for industrial workers.

Va., Warrenton—R. Randolph Hicks, 49 Wall St., New York, has low bid at \$66,773 from J. W. Saunders, Royster Bldg., Norfolk, for residence near Warrenton; Wickham C. Taylor, Archt., Citizens Bank Bldg., Norfolk.

Government and State

D. C., Washington—Following contractors estimating on administration building for Department of Agriculture, bids March 5 by Treasury Dept., Jas. A. Wetmore, Act. Super-

vising Archt.: General, James Baird Co., 101 Park Ave.; Thompson-Starrett Co., 15 Wall St.; P. J. Carlin Construction Co., Grand Cent. Terminal, all New York; D. D. Thomas & Son, 463 N. Dunlop St., Memphis, Tenn.; Fleisher Engineering and Construction Co., 410 N. Michigan Blvd., Chicago, Ill.; Geo. Hyman Construction Co., 1010 Vermont Ave.; Geo. E. Wyne, 2525 Pennsylvania Ave.; Geo. A. Fuller Co., Munsey Bldg.; James Stewart & Co., Inc., Evans Bldg., all Washington, D. C.; Hunkin-Conkey & Co., Cleveland, O.; Mechanical, Baker, Smith & Co., 576 Greenwich St.; Thompson-Starrett Co., 15 Wall St., both New York; W. G. Cornell Co., 19 Patterson St., N. E.; Standard Engineering Co., 2129 I St., N. W.; Geo. Hyman Construction Co., 1010 Vermont Ave., all Washington; Riggs, Distler & Co., Inc., 216 N. Calvert St., Baltimore, Md.; Hunkin-Conkey & Co., Cleveland, O.; Power Efficiency Corp., 137 Arthur St., Buffalo, N. Y.; Rankin & Kellogg, Archts., 1805 Walnut St., Philadelphia; Edw. H. Bennett, Constl. Archt., 80 E. Jackson Blvd., Chicago. 1-26

D. C., Washington—Purchase Section, Bureau of Standards, receives bids Feb. 3 for repairs and alterations to Far West Bldg.

Ga., Fort Benning—Constructing Quartermaster, Lieut. W. M. Allison, receives bids Feb. 27 for sections F and G of Cuartel Barracks, including utilities and tunnel from completed section to proposed section; cost \$465,000; former 3 and 4 stories and basement, 258x50 ft.; latter 4 stories and basement, 284x50, fireproof, rein. concrete flat slab and beam, common brick walls, partitions and arches, stucco, Portland cement, Indiana oolitic limestone trim, tile and composition roof, cement floors, kalamein doors, steel door frames, steel lockers, misc. iron and steel work, steam heat, towers; following contractors estimating: Southern Ferro Concrete Co., Ellis St.; John W. Cowper Co., Healey Bldg., both Atlanta.

Tenn., Maryville—F. C. Drinnen, Atty., start work in few days on 3-story armory, Depot St., for Tennessee National Guard; 90x100 ft.; lockers, shower baths.

Hospitals, Sanitariums, Etc.

Ala., Montgomery—Methodist Hospital Board of Trustees, Gen. R. E. Steiner, Pres., having plans drawn by Okel & Cooper, Archts., Bell Bldg., for \$500,000 addition to Montgomery Hospital; fund campaign under way. 1-26

Ga., Fort Benning—War Dept., Washington, D. C., has appropriation available from deficiency bill recently signed by President for nurses' home and addition to hospital, Fort Benning; cost \$200,000.

Ga., Macon—Middle Georgia Sanitarium, Dr. C. C. Harrold, Pres., 722 Spring St., receives bids Feb. 15 for Middle Georgia Doctors' Office Building; cost \$100,000, rein. concrete, face brick, semi-fireproof, 3 stories and basement, 95x65 ft., limestone trim, steel sash, elevator, steam heat; Hentz, Adler & Schutz, Archts., Candler Bldg., Atlanta; Dennis & Dennis, Asso. Archts., 556 Mulberry St., Macon. 12-8

Ga., Milledgeville—Georgia State Sanitarium receives bids Feb. 15 for building; brick walls, concrete and wood floors, 3 stories and basement, steam heat; plans by T. H. De Saussure, Engr. in Charge.

Miss., Canton—Kings' Daughters' Hospital erect \$30,000 building; rein. concrete, brick, stone trim, 2 stories, 30x75 ft., composition roof, concrete foundation, wood and tile floors, cost \$30,000; Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson; ready for bids about 10 days.

Mo., Sedalia—City may vote March 6 on \$200,000 hospital bonds. Address City Council. 1-26

S. C., Greenville—Greenville County having plans drawn for \$150,000 hospital by Beacham & LeGrand, 17-A North St.; fireproof, rein. concrete and brick, stone trim, cement and tile floors, built-up roof, steam heat. 11-17

Tenn., Knoxville—City has low bid at \$10,132 from Lynn A. Hayes, Dooley-Gillespie Bldg., for repairing and remodeling Knoxville General Hospital; bid at \$8,483 from East Tennessee Electric Co. for electric refrigeration, both Knoxville; Louisville Manufacturing Supply Co., Louisville, Ky. 1-26

Tex., Dallas—Dr. Gerald B. Thaxton, Allen Bldg., erect building for post-graduate clinic, hospital and dispensary, San Jacinto and Leonard Sts.; plaster exterior, ornate stone and brick trim; F. J. Woerner & Co., Archts.-Constr. Supervisors, Central Bank Bldg.

Tex., Galveston—Sealy & Smith Foundation, Dr. Edw. F. Randall, Sr., Chmn., Bldg. Comm., receives bids Feb. 21 for power plant and

laundry building, John Sealy Hospital; cost \$200,000, fireproof, rein. frame, 2 stories, about 80x90 ft., with arcades for steam line distribution; piping includes auxiliaries, power plant piping and new distribution system; separate contracts same date for plumbing and heating, boilers and boiler installation, piping and power plant auxiliaries, and brick chimney; R. L. White, Archt., care University of Texas.

Tex., Houston—Dr. E. Marvin Bailey, 2407 Main St., and Mrs. Annie M. Foley erect sanitarium, Isabella and Fannin Sts.

Tex., Kerrville—United States Veterans Bureau expend \$20,000 to improve hospital buildings, U. S. Veterans Hospital, Dr. O. D. Westcott, Medical Officer in Charge; paving plans being drawn.

Tex., Temple—Scott & White Hospital erect 4-story addition; remodeling first floor of present building.

Hotels and Apartments

D. C., Washington—David L. Stern, Archt. & Builder, 1412 I St., N. W., announced plans for \$600,000, fireproof, 5-story apartment building, S. W. cor. Connecticut Ave. and Appleton St., N. W.; 49 suites of 3, 4 and 5 rooms and bath with porch; concrete, brick and steel, front elevation of brick with stone trim; high-speed electric elevator, electrical refrigeration, showers, etc.; garage in basement with capacity for 50 cars.

D. C., Washington—Cafritz Construction Co. has completed plans for erection of \$1,250,000, 11-story apartment building on N. E. cor. 21st St. and Pennsylvania Ave., N. W., on site of Old Penn Gardens; work of demolishing present building on site will begin immediately; 290 housekeeping and non-housekeeping units, housekeeping units to contain 1 and 2 rooms, with diner, kitchen, dressing closet with disappearing bed and tiled bath; non-housekeeping units contain 1 room with dressing closet and disappearing bed and tiled bath; 110x130 ft., 110 ft. high, reinforced concrete construction; Harvey H. Warwick, Archt., 1400 K St., N. W. 11-24

D. C., Washington—Z. D. Goldsmith and William Keller, Edmonds Bldg., have permit for \$300,000, 8-story apartment building at 1425 Rhode Island Ave., N. W.; concrete skeleton with brick walls, Italian Renaissance architecture; 72 apartments of 1 and 2 rooms, kitchenette, dining alcove and bath; William L. Harris, Archt., 728 17th St., N. W.

Fla., Tampa—J. M. Harvey, Owner, 719 1/2 Florida Ave., announced plans for new building on site of recently burned Bostain Hotel.

Ga., Savannah—J. B. Pound, owner of De Soto Hotel, will erect 60x70-ft. swimming pool in court of Hotel.

La., Monroe—J. W. Smith and Associates, Archts., Onachita Bank Bldg., complete plans in 2 weeks, contract to be let not later than March 1 on \$250,000, 9-story, 60x120 ft., reinforced concrete, steel, brick, stone trim, fireproof hotel building on Grand St., adjoining present Hotel Monroe, J. E. Doughtie, Mgr.

La., Shreveport—F. E. Griffin, 3010 Creswell St., erect two 12-room frame apartments at 637-48 Rutherford St.; \$10,000.

Miss., Greenville—Leon Fletcher will take over Cowan Hotel on March 15, will remodel and refurbish throughout and rename it Hotel Roselyn; H. W. Lathrop, Archt.

Mo., Jefferson City—Louis Scheil, Contr., erecting apartment building for Judge William H. Gundelfinger on Monroe St.

Mo., Joplin—Barney L. Allis, Pres. of Allis Hotel Co., announced buildings adjoining Connor Hotel will be razed about Feb. 15 in preparation for erection of \$600,000, 9-story, 140x50 ft. annex; also remodel and redecorate present structure; fireproof, reinforced concrete, brick, cut-stone trim, marble interior trim; 2 high-speed elevators, ventilating system. Mr. Allis wires: "Connor Annex will be 9-story, reinforced concrete, fireproof structure, with 154 rooms and 6 or 7 stores on Fourth St.; Alonzo H. Gentry, Archt., March Bldg., Kansas City."

Mo., Kansas City—Charles E. Phillips, 609 Victor Bldg., purchased N. W. cor. 48th St. and Roanoke Pkwy., at site for 7-story, 40-apartment building.

N. C., Burlington—C. T. and W. K. Holt having plans prepared for apartment house to be built this spring.

N. C., Hendersonville—Benton & Benton, Archts., Wilson, preparing plans for \$350,000, 10-story, 70x100-ft. hotel building; concrete floors and foundation, steel frame, reinforced concrete, composition roof, vapor heating system. See Want Section—Building Materials and Equipment.

N. C., Waynesville—Chamber of Commerce,

Mrs. Ben West, Sec., promoting construction of \$150,000, brick, fireproof, 4-story hotel.

Tex., Austin—Alamo Hotel, care M. C. Parrish, contemplates addition to present 6-story building.

Tex., Kerrville—Blue Bonnet Hotel Co., Floyd Singleton, Pres., has plans in progress by P. G. Silber & Co., Bedell Bldg., San Antonio, for \$100,000, 140-room, 3-story addition on present 5-story Blue Bonnet Hotel. 1-26

Tex., La Ward—W. R. Boyd, Houston, Miss., start work at once on first unit of hotel; 20 rooms.

Tex., Longview—J. W. Dalston, owner of Magnolia Hotel, will erect brick, fireproof hotel building.

Tex., Pharr—A. A. Calloway and Lloyd E. Mellor, Asso. Archts., preparing plans for \$150,000, reinforced concrete, hollow tile and brick, 60-room, 2-story, 142x143-ft. hotel.

Tex., San Antonio—Swiss Plaza Co., care Henry A. Robards, Selling Agent & Mgr., 943 E. Mistletoe St., contemplates erecting 21-story, fireproof, brick, tile and concrete Swiss Plaza Apartment Hotel, McCullough St., near Robinson Road; W. J. Knight & Co., Engrs., Wainwright Bldg., St. Louis, Mo.

Tex., San Antonio—John P. Morris, 811 Brady Bldg., has permit for \$40,000, 8-apartment building on Mulberry St.

W. Va., Charleston—Community Hotel Corp., care W. B. Geary, have plans out for bids Feb. 5, to be opened Feb. 19 for construction of \$660,000, 9-story, concrete, 130x112 1/2 ft. hotel building, cor. Capitol and Washington Sts., equipment and furnishing cost \$150,000; concrete foundation, terrazzo floors, built-up roof; will be operated by American Hotels Corp., 25 West 45th St., New York; W. L. Stoddart, Archt., 50 East 31st St., New York; Charles A. Haviland, local Archt., Kanawha Valley Bank Bldg. 11-17

Va., Portsmouth—Emmerson Hotel Corp., Arthur Emmerson, Pres., soon start work on 9-story, concrete, 90x110-ft. hotel building on High St.; \$400,000, equipment and furnishings \$150,000; pile and concrete foundation, 160 rooms and connecting bath; Milburn, Heister & Co., Archts., Hill Bldg.; address proposals to Miller Engineering Co., Smith Bldg., both Washington, D. C. 5-6

Miscellaneous

Ga., Macon—R. J. Spiller, 650 Ponce de Leon Ave., Atlanta, reported, contemplates erecting \$35,000 concrete and steel baseball stadium, seat 3,500.

Ga., Tifton—Woman's Club soon have plans by Edwards & Sayward, 101 Marietta Bldg., Atlanta, for 2-story and basement, 90x50 ft., brick club building; composition roof.

Md., Baltimore—James Clarke Murphy, Calvert Bldg., and R. Contee Rose, Munsey Bldg., Chmn. of special committees of New Maryland Country Club and Hillendale Country Club, announced merger of clubs; plans include liquidation of all property and holdings of New Maryland Country Club at old site on Park Heights Ave., purchase of property contiguous to present property of Hillendale Country Club for new 18-hole golf course, construction at Hillendale of large clubhouse for which plans have been drawn.

Mo., St. Louis—Board of Directors of German House, Inc., Joseph Sauerburger, Chmn., approved plans by Jacob Heim, Archt., 211 N. Seventh St., start work at once on \$300,000, 175x250 ft. German House.

Mo., St. Louis—Benish Restaurant Co., Eighth and Olive Sts., leased 4-story building at 205 N. Broadway and plans to spend \$100,000 for alterations and equipment.

Tex., Edinburg—Edinburg Country Club, E. A. Brown, Pres., receives bids this week for 2-story, 92x86-ft., brick, tile and stucco, reinforced concrete, cast stone, country club; Robert L. Vogler, Archt. 12-8

Tex., Fort Worth—University Place Study Club, Mrs. H. V. Shank, Pres., contemplates erecting clubhouse.

Tex., Houston—Jesse H. Jones, Goggan Bldg., Chmn. of committee on arrangement, reported, selected Kenneth Franzheim, Archt., Chronicle Bldg., prepare plans for \$100,000 building for Democratic national convention; seating capacity 20,000; J. E. R. Carpenter, Asso. Archt.; construction in charge of C. A. Dowdy, City Archt. 1-26

Tex., San Antonio—Isaac Bledsoe, 900 W. Woodlawn St., owner of building occupied by Wilbert & Pelphey, funeral directors, will extensively remodel, build new Spanish design, stucco front.

Tex., San Antonio—Holy Ghost Convent, Yucca St., have completed plans about Feb. 20 for \$80,000, 4-story, brick, reinforced concrete addition; Leo M. J. Dielman, Archt., 306 E. Commerce St.

Tex., Temple — W. W. Seller purchased property at First St. and Adams Ave., plans to improve; details not decided.

Railway Stations, Sheds, Etc.

Tex., San Angelo—Gulf, Colorado & Santa Fe Railway Co., F. Merritt, Ch. Engr., Galveston, reported, erect \$225,000 freight station.

Schools

Ala., Fairfield—City of Fairfield, B. B. Baker, Supt., has plans in progress by Denham & Denham, Archts., 1221 Comer Bldg., Birmingham, for \$125,000, 3-story, brick, stone trim High School; reinforced concrete footings, built up roof; \$150,000 bonds just voted.

Ark., Batesville—Arkansas College contemplates erecting woman's dormitory, conservatory and chapel; \$55,000 has been subscribed toward \$150,000 fund.

D. C., Washington—House of Representatives adopted amendment to authorize completion of half-finished bathing pool on grounds of McKinley High School and Langley Junior High School.

D. C., Washington—Office of Public Buildings and Public Parks opened bids for Colored bathing pool on grounds of Francis Junior High School, 24th and N Sts., N. W.; alternate bids received on larger and smaller bath houses; H. S. Hatton Construction Co., First and N Sts., N. E., and Fred Drew Co., Inc., 2525 Pennsylvania Ave., N. W., low bidders at \$61,945 and \$57,575.

Fla., Johnson—Putnam County Board of Public Instruction, C. H. Price, Supt., Palatka, receives bids Feb. 10 for brick and hollow tile school building; Mark & Sheftall, Archts., Clark Bldg., Jacksonville.

Fla., Tampa—Florida Girls Free Training School, Hamner Estates, have plans ready for bids by Feb. 3, to be opened about Feb. 17, for 47x82 ft., 3-story dormitory, 1-story, 34x54 ft. officers' quarters, and power and laundry building; to be first unit of plant to eventually cost \$300,000; concrete foundation; floors of composition, wood, concrete, etc.; asphalt and composition roofing; F. A. Harris, Archt. and Engr., 301-302 Lafayette Arcade. See Want Section—Building Materials and Equipment; Machinery and Supplies. 9-1

Fla., Wewahatchka—Gulf County Board of Public Instruction sold \$30,000 bonds for new high school; site purchased and work soon start.

Ga., East Point—Board of Education soon call for bids on \$100,000, 2-story and basement, hollow tile and stucco school building; composition roof, steam heat, tile and concrete floors; Daniell & Beutell, Archts., Healey Bldg., Atlanta. 11-24

Ga., Moultrie—City voted \$70,000 school bonds; Board of Education. 12-15

Md., Frederick—Hood College planning to erect dormitory for freshmen.

Miss., Baldwin—Board of Education selected Walter R. Nelson, Shrine Bldg., Memphis, Tenn., as Archt. for \$40,000, 1-story, brick and stone trim, 12-classroom and auditorium school building; complete plans within 30 days.

Miss., Clara—Board of Trustees of Wayne County Agricultural High School planning to rebuild boys' dormitory, burned; Prof. C. A. Massey, principal.

Miss., Clara—Board of Trustees of Wayne County Agricultural High School, Waynesboro, planning to rebuild boys' dormitory, recently burned; 2 stories, 36 rooms; Prof. C. A. Massey, principal.

Miss., Fayette—School Board contemplates erecting new school building.

Miss., Georgetown—Trustees of Union Consolidated School of Simpson County considering construction of \$50,000 school and consolidation of Union, Harrisville and Bridgeport schools; bond election soon.

Miss., Oxford—Mayor and Board of Aldermen selected Claude H. Lindeley, Lamar Life Bldg., Jackson, prepare plans and specifications for \$75,000, 2-story and basement, reinforced concrete, brick and stone trim school building; reinforced concrete foundation, composition roof, plastered interior, structural steel and iron work; bond election February 7. 1-26

Miss., Sardis—Board of Trustees of Caruthers Consolidated School receives bids Feb. 11 for school building; plans and specifications from Panola County Supt. of Education.

Miss., Sardis—Board of Trustees of Caruthers Consolidated School receives bids Feb. 11 for new building; plans and specifications from Panola County Supt. of Education.

Miss., Senatobia—Board of Mayor and Aldermen call election Feb. 14 on \$35,000 bonds for erection of school building. 12-22

Miss., West Point—George Mahan, Jr., Archt., City Savings Bank Bldg., Memphis, Tenn., preparing plans, to be completed latter part of March, for \$150,000, 2-story and basement, reinforced concrete, brick and stone trim High School building; \$150,000 bonds just voted; concrete foundation, plastered interior, composition roof; Board of Education. 1-5

Mo., Bernie—A. F. Lindsay, Archt., H. & H. Bldg., Cape Girardeau, advises regarding burned High School building: "Will rebuild this spring;" V. H. Lincoln, Pres. Board of Education. 1-26

Mo., Brookfield—Board of Education, Glimmer Banning, Pres., may call bond election this spring to erect \$300,000 High School.

Mo., Clarence—Town voted \$50,000 bonds for erection of High School; Board of Education.

Mo., St. Louis—Board of Education, Ben Weidle, Pres., plans to rebuild Columbia School, Cass and St. Louis Aves.; also planning technical training school on site of old Central High School.

N. C., Kinston—Lenoir County Board of Education asking for \$117,000 loan; construct new school at Institute and additions to schools at LaGrange and another point.

N. C., Lexington—School Board, J. H. Cowles, Supt., has plans in progress for 2-story, brick school; concrete and brick foundation, wood floors, composition roof; Percy Bloxam, Archt. & Engr., Salisbury.

N. C., Winston-Salem—City votes March 6 on \$2,500,000 school bonds. Address Board of Education.

Okla., Holdenville—City voted \$40,000 bonds for 6-room teachers' building, Junior High School and additional grade schools; Board of Education.

Okla., Medford—Consolidated School District No. 1, Grant County, voted \$35,000 school bonds; Board of Trustees.

Okla., Muskogee—Bacone Indian College plans expansion campaign; add 2 buildings and enlarge and improve campus.

Okla., Norman—University of Oklahoma soon start work on \$25,000 temporary building to house school of journalism; 1 story, brick; Dr. W. B. Blizzell, Pres.

Okla., Sikes—Winn Parish School Board, Winnfield, soon select architect for 2-story, brick and reinforced concrete school building; \$65,000 bonds voted.

Okla., Tulsa—City, reported, defeated \$1,500,000 school bond election.

Tenn., Harrogate—Lincoln Memorial University plans to erect girls' dormitory and manual training department building.

Tenn., Johnson City—East Tennessee State Teachers' College, Charles C. Sherrod, Pres., instructed Ben Hunt, Archt., James Bldg., Chattanooga, complete plans at once for \$150,000 training school building.

Tenn., Memphis—Shelby County Board of Education soon ask bids for \$200,000, 2-story, brick school at Hollywood.

Tenn., Murfreesboro—State Board of Education, P. L. Harned, Commissioner of Education, Nashville, receives bids Feb. 10 for 3-story, fireproof dormitory for girls and 2-story fireproof training school building and gymnasium at Middle Tennessee State Teachers' College; bids will be taken on each project separately or two combined; plans from Marr & Holman, Archts., 702 Stahlman Bldg., Nashville. 1-12

Tenn., Nashville—State Board of Education, P. L. Harned, Commissioner of Education, receives bids Feb. 10 for construction of boiler house, smokestack, central heating plant and distributing mains at Agricultural and Industrial Normal College; separate bids on boiler house, smokestack, mechanical work and pipe trenches and also combined bid on the whole; plans from Marr & Holman, Archts., 702 Stahlman Bldg.

Tenn., Wartrace—School Board plans to erect \$25,000 to \$40,000 building next spring; replace structure burned.

Tex., El Paso—College of Mines, Dean C. A. Puckett, asking \$1,000,000 appropriation for buildings; provide \$250,000 administration building, \$200,000 laboratory building, \$200,000 library, \$150,000 auditorium, \$100,000 activities building.

Tex., Prairie View—General Education Board of New York City made appropriation of \$100,000 to Prairie View State College, to be supplemented by State's appropriation of \$284,000; buildings planned are: Girls' dormitory, \$100,000; hospital and equipment, \$85,000; community center, \$20,000; boys'

dormitory, \$35,000; one unit of boys' trades building, \$150,000.

Tex., San Angelo—Lakeview Independent School District, R. L. Probst and R. J. Alexander, trustees, may vote on \$60,000 bonds.

Tex., San Antonio—Board of Education acquired property on Cedar St. adjoining Bonham School property; will remodel present residence for classrooms.

Tex., Yoakum—Catholic Congregation has plans in progress by Leo J. Dielman, 306 E. Commerce St., San Antonio, for \$80,000, 2-story, brick, reinforced concrete school.

Va., Lynchburg—Campbell County Board of Education, Rustburg, selected site in Fairview Heights, near Lynchburg, for proposed school.

Va., Sweet Briar—Sweet Briar College contemplates erecting \$160,000 library, \$115,000 gymnasium and \$100,000 auditorium; S. E. Thompson, Chicago, Gen. Chmn. of campaign to secure \$375,000 endowment; Cram & Goodhue, Archts., Boston, Mass.

Stores

Ala., Birmingham—John W. McConnell and Associates, 1807 Exeter Ave., Bessemer, erect \$192,000, 5-story, steel and reinforced concrete stores building at Third Ave. and N. Tenth St.

Ala., Calera—Holcombe Mercantile Co. will remodel store building on Main St.

Ga., Atlanta—Isaac Moscovitz, Archt., Glenn Bldg., receiving bids for remodeling store on Whitehall St.

Ga., Chatsworth—Mark D. Jefferson plans to erect store and warehouse.

La., Shreveport—W. B. Jacobs, 830 Monrovia St., has completed plans by Clarence W. King, Giddens-Lane Bldg., for \$200,000, 2-story and basement, 80x120-ft. department store building, Texas and Edwards Sts.

Md., Baltimore—H. B. Herring, 400 W. North Ave., purchased property at Maryland and Lafayette Aves.; will improve for business purposes.

Miss., Laurel—Harry and Nathan Fine, 758 Fourth Ave., and D. A. Matison, 567 Sixth Ave., have plans in progress by P. J. Krouse, M. W. Bldg., Meridian, for \$100,000, 3-story and basement store building; concrete footings, brick walls, steam heat, built-up roof, concrete and wood floors, plate glass.

Mo., St. Charles—Harris Lumber Co. erect store and office building on Second St.

Tex., Houston—Weingarten's, Inc., 1502 Main St., purchased property at N. Main St., Houston, and Pecore Aves. as site for community grocery building.

Tex., Houston—Progressive Investment Co., J. Weingarten, Pres., purchased property in 6400 and 6500 block Harrisburg Blvd., plans to erect community store.

Tex., San Antonio—Henry A. & Ira E. Neal, care Neal Hardware Co., S. Flores St., have plans for fireproof, brick and concrete business building, S. Flores and Guilbeau Sts.

Tex., Taylor—Bowers Estate has plans in progress by H. F. Kuehne, 824 Littlefield Bldg., Austin, for remodeling 1-story store and adding second story for offices; \$25,000.

Tex., Taylor—Carl Gran has plans in progress by H. F. Kuehne, 824 Littlefield Bldg., Austin, for 1-story, 64x125 ft. store building; reinforced concrete frame, brick, terra cotta trim; hollow tile partitions, store building; wood floors, plate glass front, composition roof; \$20,000.

Theaters

Ark., Walnut Ridge—Jimmie Boyd, Blytheville, purchased Swan Theater; make improvements, include new pipe organ.

La., Ruston—John B. Kendall, of Kidd-Astor Amusement Co., announced work begin within 30 days on \$80,000, 120x87 ft. theater building on N. Trenton St.; seating capacity 1,000. 8-11

Tex., Houston—Interstate Amusement Co., Karl Hoblitzelle, 5519 St. Andrews St., Dallas, Pres., will erect \$2,500,000 Majestic Theater building, seating capacity of 4500; site not yet announced.

Tex., Uvalde—H. B. Hunter has low bid from S. T. Hutchinson, 711 Hays St., San Antonio, at \$18,180, for 1-story and balcony, 140x40 ft., brick, tile and stucco, cast stone theater building.

Warehouses

Fla., Tampa—A. V. Emerson erect \$20,000 warehouse on Cass St.

Okla., Ada—J. M. Carter plans to erect produce house on E. Main St.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Fla., St. Augustine—Young Men's Christian Assn. completed foundation for \$10,000 gymnasium, Ribera St.; frame, 1 story, 65x100 ft., wood floors; F. A. Henderich, Archt., Jefferson Theater Bldg.; St. Augustine Building Co., Constr. Supervisor, City Bldg.; all material and sub-contracts locally. 1-19

Ga., Atlanta—Yaarab Temple Building Co., Geo. E. Argard, Sec., let contract for \$2,000,000 Shrine temple to C. A. D. Bayley & Co., Inc., C. & S. B. Bldg., Atlanta; fireproof, Saracenic type, 190x210 ft., concrete, brick, terra cotta, marble and tile floors, rein. concrete foundation, composition roof; elevators; banquet hall to seat 1000; 12 stores and theater to seat 5000, latter leased for 21 years to Fox Theaters Corp., New York; steel and asbestos curtain; Marye, Alger & Vinour, Archts., Walton Bldg., Atlanta; Howard B. Crane, Consult. Archt., New York; Jos. S. Shaw, Supvg. Archt., Ga. Savings Bank Bldg., Atlanta. 1-26

Miss., Columbus—Grand Lodge, F. & A. M., Jas. H. Johnson, Grand Master, let contract at \$25,690 to D. S. McClanahan for boys' dormitory, Masonic Home; brick, 2 stories, 40x120 ft., wood floors, concrete and brick foundation, composition roof; furnishings, equipment, etc., \$7500; Frank P. Gates Co., Edwards Hotel, and Emmett J. Hull, Merchants Bank Bldg., both Jackson, Asso. Archts.; low pressure steam heating, Paine Heating Co., 127 S. State St., Jackson; electrical work, Electric Service Co., Oak St., Laurel; plumbing, Tom McIntyre, Columbus. 1-12

Miss., Ocean Springs—Murphy Electric Co., and Home Plumbing Co., both Gulfport, have contracts in connection with \$15,000 building for McLeod Lodge No. 424, F. & A. M.; Shaw & Woleben, Archts.; Lovell & Moyer, Contrs., 29-30 Real Estate Bldg., both Gulfport. 1-26

Bank and Office

Ala., Birmingham—Protective Life Insurance Co., First Ave. and 21st St., let contract for steel frame for \$750,000 office building to Ingalls Iron Works, 720 Ave. D; date of opening general bids indefinite; will use foundation and frame of 3-story and double basement building in connection with erection of 14-story section; 50x100 ft., terra cotta frame, steel sash, verde antique copper roof, steel windows, marble floors and wainscoting in corridors, concrete joist floors, concrete caisson foundation, 4 elevators; water tank, elevator pent house and machinery room under pitched roof; Warren, Knight & Davis, Archts., 1603 Empire Bldg. See Want Section—Building Materials and Equipment. 12-22

La., Lake Charles—Orange Car and Steel Co., Orange, Tex., has contract to fabricate steel for \$400,000 building for Calcasieu National Bank of Southwest Louisiana; Favrot & Livaudais, Ltd., Archts., Hibernia Bank Bldg.; Underwood Contracting Corp., Louisiana Bldg., both New Orleans, La. 1-12

N. C., Salisbury—Carolina Rubber Co., C. H. Waggener, Vice-Pres.-Gen. Mgr., started work on office building; contract let. 1-12

Okla., Altus—A. B. Josselyn erect \$160,000 bank building; brick, stone and rein. concrete, 4 stories and basement, 50x140 ft.; Layton, Hicks & Forsyth, Archts., Braniff Bldg.; W. S. Bellows Construction Co., Contr., Herskowitz Bldg., both Oklahoma City. 1-12

Tenn., Chattanooga—First National Bank let contract to Rogers & Leventhal, Inc., 822 E. 11th St., to remodel building, Main St., for branch bank; terra cotta and brick, 2 stories, 25x160 ft., marble and hardwood floors, composition roof, cost \$35,000; Bearden & Crutchfield, Archts., First Natl. Bank Bldg.; heating, J. B. Allen; electrical work, Curtis Electric Co.; plumbing, John Cuneo Plumbing & Heating Co., 1446 Central Ave. 1-26

Tex., San Antonio—Virginia Bridge and Iron Co., Roanoke, Va., has contract for 3000 tons struct. steel for \$2,000,000 store and office building for Smith Brothers Properties, Inc.; no other sub-contracts let; Ailee B. & Robt. M. Ayres, Archts., Bedell Bldg.; McKenzie Construction Co., Contr., Travis Bldg., both San Antonio. 12-1

W. Va., Ceredo—First National Bank remodeling building; banking room finished in marble; heating plant; A. D. Mead, Archt., First Huntington Natl. Bank Bldg., Huntington. 1-12

Churches

Ark., Hot Springs National Park—Park Avenue Methodist Church, J. F. Disheroon, member Bldg. Comm., started work on \$15,000 building, Pullman Ave. and Parallel St.; Doric type, 80x45 ft. with 20x14-ft. annex red brick; constr. supervision by W. H. Bills, member. 1-12

Fla., Miami Beach—Raymond Concrete Pile Co., 140 Cedar St., New York, and Exchange Bldg., Miami, has piling contract for St. Patrick's R. C. Church; rein. steel, Reinforcing Steel & Supply Co.; plumbing, Blake & Co., 212 N. E. Fourth St., both Miami; concrete block, 1 story, 66x171 ft., terrazzo floors, concrete foundation, tile roof; furnishings, equipment, etc., \$35,000; Gerald A. Barry, Archt., 313 Barnett Nat'l Bank Bldg.; O'Neill-Orr Construction Co., 212 N. E. Fourth St.; gen. contract at \$86,000. 1-26

Ga., Atlanta—Martha Brown Memorial M. E. Church, Geo. R. Lyle, Chmn., let contract for \$25,000 building to W. J. Cleckler, 208 W. Vesta St., College Park; brick veneer, 2 stories and basement, 50x106 ft., wood floors, composition roof; Chas. P. Hopson, Archt., Healey Bldg. 12-15

La., Lake Charles—Craft-Rushworth, Ltd., Broad St., has heating, electrical work and plumbing contract for \$125,000 Broad St. M. E. Church, South; millwork, Davidson Sash & Door Co., 100 Ryan St., both Lake Charles; stone, Christie Cut Stone Co., Memphis, Tenn.; Asmus, Clark & McCook, Archts., Frank Bldg., Lake Charles, and Nashville Tr. Bldg., Nashville, Tenn.; P. Olivier & Son, Inc., Contrs., 114 Bilbo St., Lake Charles; all sub-contracts let. 1-26

La., New Orleans—St. Charles Avenue Presbyterian Church has preliminary plans completed for \$120,000 auditorium; skeleton steel frame, pile and concrete footings, limestone exterior, brick and tile backing, 1 story, 60x113 ft., concrete and cork or rubber floors, rough texture slate roof, low pressure steam heat; furnishings, equipment, etc., \$25,000; W. W. Van Meter, Archt.-Engr., 606 Commercial Place; work by sub-contract to be let by Archt. See Want Section—Building Material and Equipment. 1-26

Mo., Independence—Following contracts let for \$900,000 church for Reorganized Church of Jesus Christ of Latter Day Saints, on which steel frame is being erected for dome roof and on which main walls are about half completed: Electrical work, June A. Short; lumber, crushed rock and sand, D. H. Crick Lumber and Coal Co., both Independence; plumbing and heating, MacMahon Co.; rein. steel and steel sash, Concrete Steel Co., 505 Finance Bldg.; brick, tile and brick-layers cement, United Clay Products Co., Lee Bldg.; Portland cement, K. C. Portland Cement Co., all Kansas City; struct. steel, Mississippi Valley Structural Steel Co., 2117 Big Bend Rd., St. Louis, Mo.; equipment, Bunting Hardware and Machinery Co., 816 Walnut St.; Contractors Machinery Co., 2643 Southwest Blvd.; Funkhouser Equipment Co., 2405 Jefferson St., all Kansas City, and Day & Maddock Co., Dennison and W. 82d Sts., Cleveland, O.; Henry C. Smith, Archt., 1000 Pioneer Trust Bldg., Kansas City; Moore & Weeks Construction Co., Contr., 308-10 South River Blvd., Independence. 3-4-26

N. C., Mebane—Mebane Baptist Church, H. P. Whitted, Chmn., Bldg. Comm., started work on \$13,000 Sunday school; brick, 3 stories, 44x52 ft., oak floors, concrete foundation, slate roof; R. C. Markley & Co., Archts.-Engrs., Durham; owner builds. See Want Section—Building Material and Equipment. 1-12

Tex., Caldwell—First Baptist Church let contract for \$40,000 building to Rabe Wilson, Waco; brick and tile; pipe organ, Birch D. Easterwood, Archt., Waco. 1-5

Tex., Denison—Waples Memorial Methodist Church erect \$50,000 Sunday school; concrete, steel and brick, 2 stories and sub-basement; contract let. Address The Pastor. 1-12

Tex., San Antonio—St. Mary's Church, Rev. A. C. Dusseau, Pastor, construct \$10,000 tunnel to connect church and parochial school, St. Mary's St.; 6 ft. wide, 6 1/2 ft. high, rein. concrete; W. E. Simpson & Co., Inc., Consult. Engrs., Natl. Bank of Commerce Bldg.; Walsh & Burney, Inc., 928 N. Flores St., contract on cost plus basis. 1-12

Va., Richmond—Bainbridge Street Baptist Church, Rev. S. S. Hill, Pastor, start work in 2 or 3 weeks on \$25,000 Sunday school annex; brick, 2 stories, auditorium seat 300; Clarence Hinnant, Archt., Roanoke; E. L. Bass, Contr., 708 Bainbridge St., Richmond. 1-12

City and County

Fla., Chipley—Washington County Board of Commrs. let contract at \$17,888 to Manley Jail Works, Dalton, Ga., for equipment of jail in \$200,000 courthouse and jail; Frank Lockwood, Archt., 119 Adams St., Montgom-

ery, Ala.; J. H. Carroll & Co., Contrs., Lakeland, Fla. 12-29

Fla., Moore Haven—Glades County Board of Commrs. let contract at \$64,900 to Paul H. Smith, Haines City, to complete \$148,000 courthouse on which work was started two years ago; plumbing to T. A. Pack, Haines City, at \$3,500; structure fireproof, steel frame, face brick walls backed with common brick, hollow pan concreted floors with composition covering, tile lobbies and corridors, asbestos shingle roof; E. C. Hosford, Archt., Lakeland. 11-24

Ga., Augusta—City Council let contract at \$20,347 to Howell Construction Co., Marion Bldg., for stadium and ball park, Allen Park; brick and concrete; W. H. Wise, City Engr. 1-12

Tex., Eastland—C. E. Wallace, Stamford, has heating and plumbing contract for \$300,000 Eastland County courthouse; electrical work, Wm. K. Grace Engineering Co., Kirby Bldg.; elevator, American Elevator & Machinery Co., Insurance Bldg., both Dallas; brick, stone and rein. concrete, 5 stories, 92x130 ft., wood, marble, tile and terrazzo floors, tar and gravel roof; Lang & Witchell, Archts., Amer. Exch. Nat'l Bank Bldg.; Christy-Dolph Construction Co., Contr., 721 Constr. Industries Bldg., both Dallas. 1-26

Tex., Goose Creek—City Council, H. C. Ferguson, Chmn., Bldg. Comm., started work on \$12,000 city hall and fire station; Chas. P. Jones & Co., Archts., 608 Binz Bldg.; Freeman & Co., Contrs., both Houston. 1-26

Tex., Houston—Following sub and material contracts let for \$275,000 substructure of Farmers Market, for which Don Hall, 522 Cotton Exchange Bldg., has contract: Excavation, L. D. McKaughan, Post-Ditpatch Bldg., Houston; granite work, Cement Gun Construction Co., 537 S. Dearborn St., Chicago; creosoted piles from American Creosote Works, 1305 Dublin St., New Orleans, La.; rein. steel and misc. iron, Alamo Iron Works, 130 Alamo Plaza, San Antonio; general contract includes excavation for entire site, straightening 500 feet of Buffalo Bayou channel, including steel sheet pile bulkheads, concrete and riprap bank protection, creosoted timber foundation piles, concrete footing, storm sewers and steel repairs and paving; J. C. McVea, City Engr.; plans for superstructure probably be completed about Feb. 15. 1-12

Dwellings

Ala., Birmingham—Theo. Swann, Brown-Marx Bldg., completed first floor slab of stone and rein. concrete residence, Redmont Rd.; cost about \$175,000, 2 stories and basement, hardwood and tile floors, steel and slate roof; Warren, Knight & Davis, Archts., Empire Bldg.; J. O. Hayley & Sons, Contrs., 611 Princeton Ave.; gas burner vapor heating and plumbing, Tully Plumbing & Heating Co., Second Ave. and 26th St., North; electrical work, Knight Electric Co., 2023 Fourth Ave., North; cut stone, Reed Bros. Stone Co., 30th St. and Eighth Ave., North; steel, Ingalls Iron Works Co., all Birmingham; rein. steel and and forms, Southern G-F Co., 257 Decatur St., Atlanta, Ga.; steel casement, sash and doors, Critall Casement Window Co., Detroit, Mich. 1-26

D. C., Washington—J. E. Fox, 1615 Buchanan St., receiving sub-bids for dwellings, 3820-22 Garfield St.; plumbing let to Owen & Baur, Inc., 1312 Florida Ave. N. E.; millwork, Barber & Ross, Inc., 11th and G Sts. N. W.; brick work, Reed & Ermantraut, 3424 P St. N. W.; lumber, Galliher & Hugely, Inc., Sherman Ave. and W St. N. W.; structures brick and frame, 2 stories, 20.6x42 ft., finished oak floors, concrete foundations, slate and slag roofs; plans by owner; work started. 1-12

Fla., Jacksonville—J. S. Berman, 745 W. Duval St., erect 3 brick veneer dwellings, Murray Hill; 1 story, cost \$5000 each; owner builds. 1-12

Fla., Marianna—J. C. Calhoun started work on residence, Putnam St. 1-12

Fla., Miami Beach—W. H. Walker erect \$50,000 residence; stucco and hollow tile, Spanish type; Kiehnel & Elliott, Archts., Seybold Bldg., Miami; W. H. Shinn, Contr., Huntingdon Bldg. 1-12

Ga., Atlanta—Atlanta Realty and Construction Co., 1003 Healey Bldg., erect \$10,300 dwelling, 155 Ashby St., S. W.; 2 stories and basement, 8 rooms and bath, hardwood floors, steam heat; owner builds. 1-12

Ga., Atlanta—C. E. Beem, Atlanta Trust Co. Bldg., reported, plans \$10,000 residence, Clifton Rd.; 2 stories and basement, hardwood floors, composition roof, steam heat; owner builds. 1-12

Ga., Augusta—C. R. Gracey erect \$10,000 residence, 2811 Lombardy Rd.; frame and stucco, 2 stories and basement, hardwood

floors, composition roof, steam heat; Seibert & Robinson, Contrs.

La., New Orleans—Goyer Aiken, Jr., started work on \$13,000 residence, Second St. near Chestnut St.; stucco on metal lath, 2 stories, 32x64 ft., oak floors, concrete foundation, slate roof; A. M. Pumilia, Archt., Balter Bldg.; Denis & Handy, Contrs., 348 Baronne St. See Want Section—Building Materials and Equipment.

La., New Orleans—Geo. Crystal erect double cottage, 3208-10 Laurel St.; John Ruiz, Contr., 832 Newton St., Algiers.

La., New Orleans—W. S. Delaney, 1919 Marengo St., erect 2-story frame residence, 2108 Melpomene St.

Md., Baltimore—Frank Novak Realty Co., 33rd St., erect 23 brick dwellings, 3200 block Dudley Ave.; 2 stories; total cost \$69,000; owner builds.

Md., Baltimore—James Keelty, Bldr., 3529 Edmondson Ave., erect 40 dwellings, 600 block Augusta Ave. and 22 on Wildwood Pkwy., all Wildwood; 2 stories; total cost \$150,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds.

Md., Baltimore—Geo. Hoffman, 78 S. Charles St., erect residence, Anneslie; Chas. E. Starnner, Contr., 518 Hurley Lane.

Md., Baltimore—Dr. Arthur Lankford, Medical Arts Bldg., erect \$20,000 residence, Upnor Rd. near Charles St., Homeland; cinder block and stucco, 2½ stories; Machen & Dixon, Archts.; Wm. H. Sands, Inc., Contr.

Md., Baltimore—Herbert J. West, 34 Knickerbocker Bldg., ready to start work on 7 frame cottages, Homeland; 2½ stories, 25x30 ft., wood floors, stone foundations, vapor or hot water heat, slate roof, cost \$13,000 each; Lewis & Westenhaver, Archts., 20 E. Lexington St.; owner builds. See Want Section—Building Materials and Equipment. 1-26

Md., Baltimore—Milton R. Lerch, 5206 Harford Rd., erect 8 frame dwellings, 3021-27 and 2020-26 Northway Drive; 1½ stories, 24x28 ft., slate roofs, steam heat; total cost \$28,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Geo. W. Schoenhals & Co., Munsey Bldg., erect 28 brick dwellings, 3700 and 3800 blocks Tudor Hall Ave.; 2 stories; total cost \$70,000; owner builds.

Md., Baltimore—H. J. Landbeck, 4 Cornhill Rd., erect 2 frame dwellings, 100-02 Sherington St.; 2 stories, shingle roofs, steam heat; total cost about \$10,000; L. B. Ritter, Archt., 1079 Ellicott Driveway; owner builds.

Md., Baltimore—Hyman Levinson erect brick residence and garage, 4019 Belle Ave.; 2 stories, 24x32 ft. and 10x20 ft., slate roofs, hot water heat, cost about \$10,000; A. Chambers, Archt.; Smith Construction Co., Contr., 4305 Fernhill Ave.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 10 dwellings, Westgate Rd., 5 on Melrose Ave. and 4 on Brabant Ave.; 1½ stories, 24x28 ft., slate roofs; total cost \$45,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Mo., Clayton, St. Louis—E. R. Thomas erect \$12,000 residence, Stoneleigh Towers; stone, 66x23 ft.; Kennerly & Stiegemeier, Archts., Title Guarantee Bldg.; Brockmeyer Boshie, Inc., Contr.

Mo., Kansas City—E. C. Bookelman, 6138 S. Benton St., erect \$15,000 residence, 805 W. 61st St.; 2 stories, 50x47 ft., stucco; H. A. Stonebraker, Archt., 208 Balcony Bldg.; owner builds.

Mo., University City, St. Louis—Caroline M. Appel erect 2 brick dwellings, 6911-17 Julian Ave.; 2 stories, 28x24 ft., composition shingle roofs, hot air heat; cost \$5000 each; V. R. Appel, Contr., both 1600 Big Bend Rd.

Mo., University City, St. Louis—W. L. Malkemus, 2326 Alhambra Court, erect \$10,500 residence, 7111 Northmoor Drive; 2 stories, 31x37 ft., tile roof, steam heat; Clarence A. Koenig, Archt., 2036A Russell St.; John H. Kossmann, Contr., 3884 Wyoming St.

N. C., Burlington—Burlington Real Estate Co., H. C. Pollard, Pres., completed first of about 15 dwellings, Ireland, Hawkins and Mebane Sts.; 5 rooms.

N. C., Canton—J. T. Bailey and Dr. A. P. Cline erecting dwellings, Pennsylvania Ave.; Clarence Medford erecting residence, Pennsylvania Ave.; E. J. Gallienne erecting residence, Mears Ave.

Okla., Muskogee—L. D. Forrester, Bldr., 2633 Denver St., erect 2 dwellings, 30th and Denver Sts.; cost \$2000 each; frame, 5 rooms; also \$5000 brick dwelling, 420 S. 13th St.

S. C., Greenville—H. B. McKoy, Capers St., completed frame for \$12,000 frame residence, 308 McEver St.; 2 stories and basement, 47x

26 ft. and 13x27 ft., wood floors, slate roof; Beacham & LeGrand, Archts., 17-A North St.; Morris-McKoy Building Co., Contrs., Finlay Bldg. 1-26

Tex., Alice—J. C. McGill erect \$20,000 Spanish type residence; brick and tile; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi.

Tex., Baytown—H. E. Brunson started work on 8-room duplex; erect additional duplex.

Tex., San Antonio—Alamo Development Co., Travis Bldg., has permit for 3 stucco dwellings, 1400 block W. Woodlawn St., 746-806 E. Ashby St.; 5 and 6 rooms; owner builds.

Tex., Pharr—P. S. Devine let contract to F. E. Wing & Sons, Edinburg, for \$18,000 Colonial residence and 2-car garage and servants' quarters; rein. concrete footings, frame, 2 stories, 53x33 ft.; R. Newell Waters, Archt., Weslaco; W. E. Simpson & Co., Inc., Const. Engrs., Natl. Bank of Commerce Bldg., San Antonio. 1-12

Tex., San Antonio—Davidson & English, Brady Bldg., erect 20 dwellings, Deive, Avant, McKinley and Hicks Sts.; total cost \$68,000; owner builds.

Tex., San Antonio—American Building Co., 1615 W. Kings Highway, has permit for 7 dwellings, 1800-block W. Magnolia and 400-block E. Rosewood Sts.; frame and stucco and rock veneer, 5, 6 and 8 rooms; total cost, \$37,500; owner builds.

Tex., San Antonio—Dr. J. W. Dufner, 814 Medical Arts Bldg., erect rock residence, 123 Mulberry St.; 8 rooms, cost about \$10,000; day labor.

Tex., San Benito—Sam Brown erecting \$10,000 brick, tile and stucco residence; J. A. Baker, Contr.

Government and State

D. C., Washington—Office Public Buildings and Public Parks of the National Capitol, U. S. Grant, 3rd. Director, Navy Bldg., probably ratify contract in few days with Charles H. Tompkins Co., 1612 Park Rd., N. W., for \$500,000 women's memorial building; white marble, struct. steel frame, concrete pile foundation, about 120x60 ft., 60 ft. high, tile roof, hot water heat, automatic electric elevator, auditorium with stage, several toilet rooms; Trowbridge & Livingston, Archts., 527 Fifth Ave., New York. 11-17

Mo., Nevada—Government let contract at \$37,000 to Walter Kelly, 1000 S. Main St., Eldorado Springs, for 40 mess buildings, Camp Clark; frame, 1 story, 20x41.8 ft., cement floors and foundations, metal shingle roofs; furnishings, equipment, etc., \$3000; Black & Veatch, 7th floor Mutual Bldg., Archts.; engineering by Capt. Brown, both Kansas City. 1-26

Okla., Oklahoma City—State Board of Public Affairs, G. C. Wollard, Chmn., let contract to Smiser Construction Co. for \$75,000 Governor's mansion; stone, 12 rooms; Layton, Hicks & Forsyth, Archts., Braniff Bldg. 1-19

Hospitals, Sanitariums, Etc.

Ala., Montgomery—O'Pry Heating & Plumbing Co., 163 Cotton Ave., Macon, Ga., has central heating plant contract for Montgomery Memorial Hospital; Okel & Cooper, Archts., Bell Bldg.; Algernon Blair, Contr., 11 S. Laurence St., both Montgomery. 12-15

La., New Orleans—Following contracts let for \$200,000 chapel for Hotel Dieu (hospital): Architectural terra cotta, Northwestern Terra Cotta Co., 2525 Clyburn Ave., Chicago, Ill.; orna. iron, Price-Evans Foundry Corp., Anderson Ave., Chattanooga, Tenn.; cast stone, Architectural Cast Stone Co., 8172 Colopissa St.; wiring, Electrical Contracting & Engineering Co., 518 Gravier St.; brick, Acme Brick Co., Whitney Annex; rein. steel, Truscon Steel Co., Carondelet Bldg., all New Orleans; plumbing and heating have been let by owners; Andry & Feitel, Archts., N. O. Bank Bldg.; Geo. J. Glover Co., Inc., Contr., Whitney-Central Bldg., both New Orleans. 1-26

Okla., Supply—State Board of Public Affairs, G. C. Wollard, Chmn., let contract at \$536,280 to J. D. Mann Plumbing Co., Cotton Exchange Bldg., for plumbing and heating and refrigeration at Western Oklahoma Hospital; Layton, Hicks & Forsyth, Archts., Braniff Bldg., all Oklahoma City.

Hotels and Apartments

Fla., Jacksonville—L. M. Taylor, 2319 Myra St., let contract to Herbert Parrish, 314 Duval Bldg., for \$20,000, 2-story, brick and frame, 4-apartment house on Myra St.

Fla., Valparaiso—The Valparaiso Corp., George L. Dick, Pres., Valparaiso; M. C. Richardson, Sec., Chicago, Ill., plan to erect 150

room hotel-clubhouse in connection with El Quistador club development; Zimmerman, Saxe & Zimmerman, Archts., 212 E. Superior St.; Thompson-Starrett Co., Contrs., 104 S. Michigan Ave., both Chicago.

Ga., Atlanta—Mrs. Ella Mitchell, 524 Ridgecrest Road, make alterations and additions to residence, change into 8-unit apartment house; \$12,000, 3 rooms and bath each, brick, composition roof; day labor.

Ga., Atlanta—J. R. Jordan & Son, 827 Pryor St., erect \$12,000, 2-story apartment building at 347 Eighth St., N. E.; also 1-story, brick veneer, \$7000 residence at 663 E. Morningside Drive, N. E.; work by day labor.

Ga., Augusta—Perkins Manufacturing Co. received contract to furnish lumber, millwork and other materials, including lime, cement and plaster, for \$160,000, 2-story and basement apartment building for D. Lewenstein, Piedmont Court Apts., Atlanta; owner builds. 1-6

Md., Baltimore—Dietrich Brothers, 220 E. Pleasant St., received contract for 700 tons structural steel for 12-story Warrington Apartment Building, for which Consolidated Engineering Co., 20 E. Franklin St., has General Contract. 11-4

Md., Baltimore—Robinson & Slagle, Inc., American Bldg., erect \$50,000, 4-story, brick apartment house on Hillen Road, S. E. of 29th St., plans and construction by owners.

Mo., Kansas City—Wax Realty Co., 700 Gates Bldg., erect \$18,000, 2-story, brick, 40x50-ft. apartment building at 3214 E. Eighth St.; N. E. Peters, Archt., 1006 Orear-Leslie Bldg.; owner builds.

Mo., St. Louis—A. Krueger, 4011 Utah Place, let contract to H. Beetz & Sons, 2668 Nebraska St., for two 2-story, 37x45-ft. tenements, 2641-7 Winnebago St.; \$16,000, shingle roofs, hot air heat; owner is Archt.

Mo., St. Louis—A. H. Groling Real Estate Co., 416 International Life Bldg., let contract to W. D. Quigley, 4523 Page St., for three \$7000, 2-story, stone and brick, 125x46-ft. tenements, 5017-23 Tholozan Ave.; stone foundations, oak floors, asphalt shingle roofing; hot water heating to Star Heating Co., 3941 Forest Park Blvd.; plumbing, Cabanne Plumbing Co., 5301 Pershing Ave.; electric work, K. R. Anderson, 2642 Tennessee Ave.; Oliver Popp, Archt., Arcade Bldg. See Want Section—Building Materials and Equipment. 1-26

Mo., St. Louis—Argyl Realty Co., 1237 N. 13th St., let contract to N. Alper, same, for two 2-story, brick, 34x53-ft. tenements, 5870-6 Terry St.; \$18,000, tar and gravel roofs, hot air heat; B. Shapiro, Archt., 4202 Holly St.

Mo., St. Louis—Liebowitz Construction Co., erecting \$85,000, 21-family apartment building, S. E. cor. Kingshighway Blvd. and Labadie Ave., for Lenore Realty & Investment Co.; Carl E. Etz, Archt., 9507 Milton St.

Mo., University City, St. Louis—Henry English, Eighth and Chestnut Sts., erect two 2-story, 4-family, brick, 35x52-ft. flats at 6765-9 Etzel Ave.; \$20,000; slate-coated shingle roofs, hot air heat; W. C. Carl Contracting Co., Archts.-Contrs., 3016 N. Park Drive, East St. Louis, Ill.

N. C., Raleigh—Carolina Hotel Co. organized by H. A. Underwood, Archt., Commercial Bank Bldg., Raleigh, Pres.; George P. Zouck, Pres. of Consolidated Engineering Co., 20 E. Franklin St., Baltimore, Vice-Pres.; W. Bond Collins of Gillet & Co., Bankers, Light and Redwood Sts., Baltimore, Sec. and Treas.; work started on \$800,000, 9-story, 104x102-ft. apartment hotel at Hargett and Dawson, to be first of proposed group; 4 floors to be devoted to 40 apartments, 92 hotel rooms; limestone and buff brick exterior; plans by Mr. Underwood; general contract let to John W. Hudson, Tarboro and Raleigh. 1-26

Okla., Tulsa—Alvin C. Johnson, Gen. Mgr. Illinois Life Insurance Co., 309 Nat'l Bank of Commerce Bldg., heading corporation planning \$1,000,000, 10-story, 193-room, 75x140-ft. hotel building, Seventh and Main Sts.; S. W. Straus & Co., 565 Fifth Ave., New York, approved building loan of \$800,000; Main St. side have 4 store rooms; 2 stores on Seventh St. side; exterior of marble on first floor, face brick above, with cut stone and tile trim, reinforced concrete, fireproof; every room have tile bath circulating ice water and electric fans; Mandel Brothers, Chicago, Ill., have contract to completely furnish; Albert C. Wiser, Archt., 1208 R. A. Long Bldg., Kansas City; Manhattan Construction Co., Contrs., Muskogee and Court Arcade Bldg., Tulsa. 11-17

Tex., San Antonio—Alamo Development Co., 1403 W. Woodlawn St., erect \$10,000, frame apartment house at 738 E. Ashby St.; owner builds.

Tex., San Antonio—John P. Morris, 811

Brady Bldg., erect \$40,000, 2-story, 32-room, brick veneer apartment building at 1635 Mulberry St.; owner builds.

Railway Stations, Sheds, Etc.

Fla., Lake Wales—Atlantic Coast Line Railway Co. let contract to W. C. Hinton, Cordele, Ga., for passenger station; Contrs. receiving sub-bids.

Tex., San Benito—Missouri Pacific Railroad Co., C. S. Kirkpatrick, Ch. Engr., Gulf Coast Lines, Dallas, let contract to Sumner-Sollitt Co., Nat'l Bank of Commerce Bldg., San Antonio, for passenger station. 11-4

Va., Tazewell—Norfolk & Western Railway Co., J. E. Crawford, Ch. Engr., Norfolk, let contract to Rosenheim, Pemberton & Cruise, L. C. Bldg., Bluefield, W. Va., for \$32,000 brick passenger station; slate roof, concrete floors, steam heat.

Schools

Fla., Montverde—Montverde School started work on new D. A. R. Hall, dormitory for girls; 3 stories, fireproof, concrete; work by boys of School, under supervision of W. D. Walker.

Ga., Atlanta—George A. Clayton Co., Contrs., Bona Allen Bldg., let following sub-contracts on \$122,000 dining hall, Georgia School of Technology: Heating, Landes Plumbing and Heating Co.; electric work, McCaughey Electric Co.; limestone, Ingalls Stone Co., Bedford, Ind.; slate roofing and sheet metal, Claude A. McGinnis Co., 136 Kroz St., N. E.; steel casements, David Lupton Sons Co., Allegheny Ave. and Tulp St.; Harold Bush-Brown, Archt., 115 Peachtree Pl.; J. H. Gailey, Asso., 36 12th St., N. E. 1-26

Ga., Brunswick—Glynn County Board of Education let contract to Arley Construction Co., 504 E. Bay St., Savannah, at \$48,500, for erection of gymnasium building; 2 stories, concrete, brick and steel; Stackhouse & Donehol, Archts., 266 S. 15th St., Philadelphia, Pa. 1-12

Ga., Griffin—Gresham Manufacturing Co. received contract for 2-story and basement, brick, fireproof State Experiment Station; Frazier & Bodin, Archts., Candler Bldg., Atlanta.

Ky., Lexington—J. F. Hardyman Co., Inc., Contrs., 343 E. Second St., Maysville, let following sub-contracts on \$254,000, 4-story, 80x200-ft., McVey Hall, University of Kentucky: Excavation, plastering, concrete, brick, and carpenter work, by J. F. Hardyman Co.; structural steel, Massillon Bridge & Structural Co., Massillon, Ohio; elevator, Warner Elevator Co., Spring Grove Ave., Cincinnati, Ohio; linoleum floors, Bonded Floor Co., Inc., 1421 Chestnut St., Phila., Pa.; ornamental iron, Logan Co., Franklin and Buchanan Sts., Louisville; millwork, Combs Lumber Co., 439 E. Main St., marble and tile work, Oldham Brick & Tile Co., 150 Market St.; roofing and sheet metal work, J. D. Harper, 742 W. Short St.; cut Indiana limestone, Lexington Cut Stone Co., 608 E. Third St.; all Lexington. 8-4

La., Baton Rouge—St. Joseph's Catholic Congregation, Father F. L. Gassler, let contract to D. E. Chapman, 840 Wax St., at \$64,000 for 2-story, concrete school on North St.; concrete foundation, concrete, wood and tile floors, composition and concrete roof; William T. Nolan, Archt., Canal Bank Bldg., New Orleans.

N. C., Durham—W. H. & T. H. Lawrence, Contrs., 516 Trust Bldg., let following sub-contracts on \$192,000, 2-story, fireproof Junior High School: Heating, Messner Heating Co., Southern Fire Ins. Bldg.; plumbing, W. L. Brown, Gregson St.; structural steel, Carolina Steel & Iron Co., Elm St., Greensboro; reinforcing steel, Southern G-F Co., Kinney Bldg., Charlotte; roofing, Budd Piper Roofing Co., 115 W. Chapel Hill St.; Milburn-Heister Co., Archts., First Nat'l Bank Bldg., Durham, and Hill Bldg., Washington, D. C.

N. C., Lexington—Davidson County Board of Education let contract to W. D. Perryman, Route No. 4, for addition of 4 classrooms and 2 basement rooms to Arcadia school.

N. C., Raleigh—Peace Institute, Dr. W. C. Pressly, Pres., let contract to Jewell-Riddle Co., Sanford, at \$78,831, for 3-story dormitory and 2-story library; Atwood & Nash, Archts., Chapel Hill. 1-19

Okl., Stillwater—Tankersley Construction Co., 521 Tradesmen's National Bank Bldg., Oklahoma City, laying brick for \$125,000, 1-story, brick and structural steel, 250x250-ft., Industrial Engineering Building at Oklahoma Agricultural and Mechanical College; furnish-

ings and equipment cost \$40,000; concrete floors and foundation, Pyro-Bar roofing; heating to Grinnell Plumbing & Heating Co., 615 Pioneer Trust Bldg., Kansas City; electric work, A-1 Electric Co., Shawnee; Layton, Hicks & Forsyth, Archts., Braniff Bldg.; Brown & Myers, Engrs., Petroleum Bldg.; both Oklahoma City. 1-26

S. C., Latta—Board of Education let contract to E. C. Derby & Co., Fayetteville, N. C., for \$80,000 High School; 12 classrooms and auditorium; H. D. Harrold, Archt., Bennettsville.

Tenn., Lavinia—Carroll County Board of Education, Huntington, erecting \$10,000 brick school building.

Tenn., Nashville—V. L. Nicholson Co., Contrs., 102 W. Clinch Ave., Knoxville, let following sub-contracts on \$101,116, 2-story and basement, brick, reinforced concrete, fireproof, 250x100 ft. school building, Jones Ave. and 24th Ave., South; roofing and sheet metal, T. L. Herbert & Sons, 174 Third Ave., North; reinforced steel and metal tile forms, Wilson-Weesner-Wilkinson Co., 108 Fatherland Ave.; form lumber, Norvell & Wallace, 601 Broad St.; steam vacuum return heating and plumbing let to Gowans-Hailey Co., 167 Second Ave., S.; George D. Waller, Archt., 911 Independent Life Bldg. See Want Section—Building Materials and Equipment. 1-26

Tex., Harlingen—Harlingen Independent School District, R. B. Hamilton, Sec., let contract to Meriwether & Sauers, at \$93,085, for North Side and South Side Ward Schools; 1 story, brick, reinforced concrete, cast stone, fireproof; Page Brothers, Archts., Austin Nat'l Bank Bldg., Austin; M. L. Diver, Engr., Calcasieu Bldg., San Antonio. 1-12

Tex., Lasara—Lasara Independent School District, Mr. Brownfield, Pres. Board of Directors, let contract to Meriwether & Sauers, Harlingen, at \$22,359 for 1-story, 4-classroom and auditorium, Spanish type, semi-fireproof school building; plumbing to Hub Plumbing Co., Pharr, \$1130; electric wiring, Weslaco Electric Co., Weslaco, \$392; tile walls, stucco exterior, plaster interior, reinforced concrete foundation; R. Newell Waters, Archt., Weslaco. 12-29

Va., Roanoke—School Board let contract to Martin Brothers, 209 1/2 First St., S. W., at \$57,592, for 3-story addition to Jackson High School, Ninth St. and Montrose Ave., S. E.; fireproof, brick, stone trim, reinforced concrete, built-up roof, concrete foundation; Duraflex, terrazzo and concrete floors; heating and ventilating to Forbes-Wedde Co. at \$13,197; Wiley & Wilson, Lynchburg, Conslt. Engrs. for heating and ventilating; Louis Philippe Smithy, Archt., 112 Kirk Ave., Roanoke; Charles M. Robinson, Conslt. Archt., Times-Dispatch Bldg., Richmond; C. S. Churchill, Conslt. Engr., Liberty Trust Bldg. 1-19

Stores

Ark., Pine Bluffs—M. Danaher, 222 Laurel St., let contract to E. C. Royse & Son, Citizens Bank Bldg., for \$20,000, 2-story, fireproof, steel frame, 44x156-ft., store and office building, 116 W. Second Ave.; reinforced concrete foundation, concrete floors, natural gas stoves; plans by Contr. See Want Section—Building Materials and Equipment.

Fla., St. Petersburg—C. Perry Snell, 401 Central Ave., will begin construction in early Spring on \$350,000, tile, steel and terra cotta arcade building at N. W. cor. Central Ave. and Fourth St.; Kiehnel & Elliott, Seybold Bldg., Miami and St. Petersburg.

Ga., Atlanta—W. L. Reilly, 59 1/2 Peachtree St., let contract to Wagar & Co., Norris Bldg., for 1-story and part basement, 76x34-ft. stores building on Peachtree Road at Buckhead; Indiana limestone trim, brick walls, Carey built-up roof; William J. J. Chase, Archt., 140 Peachtree St.

Ga., Atlanta—Phillip Ableman, care Atlanta Flour & Grain Co., 172 Mangum St., erect 1-story and part basement, brick, terra cotta trim stores building at Eighth Ave. and Boulevard; built-up roof, plate glass; E. C. Slez, Archt., 61 Poplar St.; owner builds.

Ga., Griffin—Newton Coal & Lumber Co. has contract for remodeling store on N. Hill St., to be occupied by J. C. Penney Co.; \$12,000; electrical work to Sibley Electric Co.

Ky., Paducah—W. T. Gant Co., 455 Seventh Ave., New York, completed basement of \$30,000, brick, 40x153-ft. store at 315-17 Broadway; new front, 2-story addition to rear, remodel and make 2 stores into 1; concrete and maple floors; plastering to Charles Osborn; concrete, brick and tile, Vandervelde

& Augustus; millwork, Langstaff-Orm Lumber Co., all 311 Kentucky Ave.; A. F. Evans, Archt., care owners; J. W. Lockwood & Son, Contrs., 311-13 Kentucky Ave. See Want Section—Building Materials and Equipment. 1-12

Mo., St. Louis—Wittels Loan & Mercantile Co., 2001 Market St., started work on \$50,000, 2-story, 92x56-ft. store and office building at S. W. cor. Olive St. and Jefferson Ave.; H. W. Guth, Archt.; S. G. London, Contr.

N. C., Canton—Wallace W. Wells and W. J. Hampton erecting \$25,000 brick building on Main St.

Tenn., Nashville—Weinberger Store, Maurice Weinberger, owner, remodeling building on Capitol Blvd. at cost of \$15,000; stone, brick and steel; J. B. Regen, Contr., 117 Fifth Ave., N.; Asmus & Clark, Archts., Nashville Trust Bldg.; heating and plumbing to J. M. Gallagher, 119 Fifth Ave., N.; electric work, Woodroof Electric Co., 2710 West End Blvd.; roofing, marble and tile, Fuller Cunningham; brick work, Al Hutchinsonson; stone, Tanksley Drumwright Cut Stone Co., 111 N. First St. 1-6

Tex., Houston—Barringer-Norton Co., 410 Main St., let contract to L. B. Elliott for remodeling building at 500 Main St.; \$25,000.

Tex., Houston—Scott Schambaugh let contract to C. W. Ennis, 1401 Dowling St., for \$40,000, 1 and 2 story commercial building at Main and Isabella Sts.; 125x117 ft., hollow tile, frame and stucco; William Bordeaux, Archt.

Tex., Houston—J. M. West, West Bldg., razing building at 902 Main St.; reported, will erect 4-story building on site in future.

Tex., Paducah—F. L. Briggs & Son started work on two 1-story brick stores on E. Richards St.; 50x100 ft., \$10,000, concrete floors and foundation; electric work, Neatherton Electric Co.; plumbing, H. M. Martin; I. D. Porter, Archt., P. O. Bldg., Dallas; S. H. Gentry, Contr. 1-26

Tex., San Saba—James McConnell let contract to J. R. Horn & Son, Abilene, at \$9500, for 1 and 2-story, brick, steel, reinforced concrete store and office building; plumbing and electric wiring in general contract; Beverly W. Spillman and Beverly W. Spillman, Jr., Archts. and Engrs., Alamo Bank Bldg., San Antonio.

Theaters

Ga., Atlanta—Yaarab Temple Building Co.; \$2,000,000 Shrine temple, theater and store building; theater seat 5000, steel and asbestos curtain; Marye, Alger & Vinour, Archts., Walton Bldg., Atlanta; Howard B. Crane, Conslt. Archt., New York; Jos. S. Shaw, Supvg. Archt., Ga. Savings Bank Bldg., Atlanta; C. A. D. Bayley & Co., Inc., Contrs., C. & S. B. Bldg., Atlanta. (See Contracts Awarded—Association and Fraternal.

La., Slidell—Peter Lalumia started work on \$25,000, 2-story, 60x120 ft. motion picture theater; lobby in center with stores and offices on each side, 650 opera chairs in main auditorium, 150 chairs in balcony; brick walls, steel frame, concrete foundation, concrete and wood floors, composition roof, equipment and furnishings cost \$5000; electric work and plumbing not yet awarded; no heating plant at present; reinforcing steel to Ole K. Olsen, Box 68, Station G, New Orleans; John M. Middleton, Contr., Hammond; T. E. White, Jr., Archt., New Orleans. 1-10

Tenn., Memphis—Pidgeon-Thomas Iron Co., 94 N. Second St., received contract at about \$100,000 to fabricate and erect steel for \$1,000,000 theater and office building, Beale and Main Sts., for Memphis Theater & Realty Co.; Kaiser-Ducett Co., Contrs., Joliet, Ill.; Rapp & Rapp, Archts., State Lake Bldg., Chicago, Ill. 11-10

Warehouses

Ga., Rome—Central of Georgia Railway Co., C. E. Weaver, Ch. Engr., Savannah, started work on \$58,000, 1 and 3-story, 52x127 and 37x123 ft., brick and wood stores; concrete foundation, concrete and wood floors, built-up roof, 1 freight elevator; G. A. Belden, Archt.; work by Co.'s forces. 1-19

Miss., Pass Christian—A. B. Hayden, Inc., started work on 60x100-ft. warehouse.

Tex., San Antonio—Mrs. Emmy Dittmar, 505 Howard St., let contract to Dielmann Construction Co., 306 E. Commerce St., for \$14,000, 1-story, 30x150-ft., steel, concrete and tile warehouse, 1233 Houston St.; Safting Co., Inc., 626 Brooklyn St., lessee. 1-26

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Crusher.—W. M. Smith & Co., Birmingham, Ala.—Wants Sturtevant rotary crusher.

Dredge (Dipper).—J. W. Billingsley, Consult. Engr., 702 Interstate Bank Bldg., New Orleans, La.—Wants 1-yd. dipper dredge, driven by gasoline or kerosene engine, completely equipped, in good working condition, mounted on sectional steel hull; answer by wire.

Drill Sharpener, etc.—Johnson & Hoeher (Mchy. Dealer), Fernwood, Delaware County, Pa.—Wants Leyner No. 33 or 50 drill sharpener and fittings.

Engines, Generator, etc.—J. F. Brewer, Mountain View, Ark.—Wants prices on engines, generator, switch board, etc.

Envelope Printing Press.—Specialty Envelope Co., Inc., Twelfth and Central Ave., Newport, Ky.—Wants envelope printing press known as "Huckins Blanket."

Filter Press.—Box 1233, Joliet, Ill.—Wants large size Sweetland filter press.

Fly Wheel.—Superior Chemical Co., Box 1233, Joliet, Ill.—Wants belt fly wheel, 16 ft. diam., 30-in. face.

Garage Equipment, etc.—W. E. Toler Imp. Co., Pawnee, Okla.—Wants data and prices on all kinds of garage equipment and accessories.

Locomotive.—R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants dealers price on 36-in. gauge 15 to 20 ton geared locomotive, second-hand equipment; wire description and price.

Marble Drilling Machinery.—H. R. Emerick, 28 Telegraph St., Binghamton, N. Y.—Wants electric machines of proper revolutions to drill marble and slate slabs.

Motor (Electric).—Southern Prison Co., E. F. Olfinger, Purchasing Agent, San Antonio, Tex.—Wants one used General Electric or Westinghouse 60 h.p., synchronous electric motor, 1200 r.p.m., 3 phase, 60 cycle, 220 volt with pulley 14-in. diam., 10-in. face with base, rails, and starting compensator complete.

Ornamental Concrete Products Molds.—W. H. Goodson, Allendale, S. C.—Wants data on concrete molds for flower vases, lawn seats, etc.; correspond with manufacturers.

Pipe (Cast Iron).—J. C. Rambo, Mountain City, Tenn.—Wants second-hand 4, 6 and 8-in. cast iron bell and spigot pipe, to be used for water system; state quantity can furnish, location, condition and price.

Pump Rods (Wood).—Heater Well Drilling Co., 319 S. Blount St., Raleigh, N. C.—Wants Octagon wood pump rods; correspond with manufacturers.

Refrigerating Equipment, etc.—Jonesboro Ice Co., Jonesboro, Ark.—Wants prices on refrigerating equipment, etc.

Sprinkler Systems.—Nu-Idea School Desk Co., Inc., Darlington, S. C.—Wants data on installation of sprinkler system.

Stamping and Cutting (Burlap Bagging) Machines.—Shelton Woodworking Machine Co., High Point, N. C.—Wants data on machines for stamping and cutting burlap bagging at same operation; correspond with manufacturers.

Turntable.—Southern Prison Co., E. S. Oefinger, Purchasing Agent, San Antonio, Tex.—Wants prices on new or used turntable for turning railroad cars, electrically operated.

Woodworking Machinery.—Arturburn Lumber Co., Cabell St. and Rure Road, Louisville, Ky.—Wants prices on used woodworking machinery.

D. C. Elphinstone, Inc. (Mchy. Dealer), 120 S. Calvert St., Baltimore, Md.—Wants following:

- (1) **Crusher**—to handle limestone tailings from 4-in. down to 1-in., 15 tons per hr.
- (2) **Steam Shovel**— $\frac{3}{4}$ yd., wheel or crawler type, good operating condition.

Woodworking and Veneer Machinery.—Nants & Co., Live Oak, Fla.—Wants following machinery for shipment to Martin, Tenn.:

- (1) **Barrell Rounder**—for heads 8 in. to 18 in.
- (2) **Clipper**—62 in. or longer
- (3) **Drag Saw**—belt driven
- (4) **Trunion Heading, Saw and Corrugator**
- (5) **Veneer Lathe**—62 in. or larger.

H. W. Dexter (Mchy. Dealer), 22 Laura St., Jacksonville, Fla., wants following equipment:

- (1) **Concrete Mixers**—6 bag Koehring or similar gasoline driven; two 75 any standard make, good order
- (2) **Engines**—two 10x12-in. steel geared heavy hoisting, with boilers, each having 2 drums with brakes
- (3) **Hammer**—steel pile, McKiernan Terry 1-B or equivalent in any make
- (4) **Hoists**—gasoline, 2 drum, to handle 2000 lb. drop pile hammer; also 30 to 40 h.p. two or three drum steam, with boiler for pile driver
- (5) **Road Roller**—3 to 5 ton, 3 wheel gas
- (6) **Pumps**—4 to 6-in. steam or gas driven, centrifugal, for water and sand; 300 to 400 gal. jet pump for sinking concrete piles.

Water Works.—F. A. Harris, Archt. & Engr., 301-302 Lafayette Arcade, Tampa, Fla., wants prices on following for Flrioda Girls' Free Training School:

- (1) **Deep Well System**
- (2) **Pumps**—two compression, for fire and waterworks system.

Miscellaneous

Sewing Machines.—Whatley Quilt and Matress Mfg. Co., School and Tenth Sts., Columbia, Tenn.—Wants data and prices on best type of sewing machines for quilt factory.

Ellen B. Phelps Crump, White Sulphur Springs, W. V., wants data on lace frames for handkerchiefs; also material for making handkerchiefs (woven or stamped material to be cut apart); correspond with manufacturers.

Building Material and Equipment

J. W. Lockwood & Son, Contrs., 311-13 Kentucky Ave., Paducah, Ky., wants prices on following for \$30,000 W. T. Grant Co. store:

- Flooring**—hardwood and tile
- Metal Ceilings and Doors**
- Tile**—gypsum.

James Stewart & Co., Inc., 507-09 Evans Bldg., Washington, D. C., wants estimates, including alternates, until March 2 on all lines for administration building for Department of Agriculture, U. S. Government, Jas. A. Wetmore, Acting Supervising Archt.

V. L. Nicholson Co., Contrs., 102 W. Clinch Ave., Knoxville, Tenn., wants sub-contract bids on following for \$101,116 school at Nashville:

- Painting**
- Plastering.**

Waddell, Bird & Lowery, care W. C. Waddell, Greeneville, Tenn., wants prices on following for 2 store buildings:

- Clear Maple and Rift Sawed Pine**
- Steam Heating System**
- Steel Ceiling**
- Steel Girders**—12 to 16 inch (not fabricated)
- Steel Sash and Trim**
- Tile**—hollow.

Warren, Knight & Davis, Archts., 1603 Empire Bldg., Birmingham, Ala., wants prices on following for \$750,000 office building:

- Elevators**
- Flooring**—linoleum, tile
- Mail Chutes**
- Marble**
- Metal Doors**
- Steel Sash and Trim**
- Tile**—hollow
- Terra Cotta Trim**
- Wire Glass.**

Lovell & Moyer, Contrs., 29-30 Real Estate Bldg., Gulfport, Miss., want prices on following:

- Cast Stone**
- Tile** (for baths).

W. D. Quigley, Contr., 4523 Page St., St. Louis, Mo., wants prices on following for three \$7000 tenements:

- Electric Refrigerators**
- Flooring**—hardwood
- Mail Chutes**
- Roofing**—asphalt shingle.

L. A. Glover, Archt., 623 Binz Bldg., Houston, Tex., wants prices on following for \$32,000 church, Harrisburg, Texas:

- Cast Stone**
- Roofing**—asbestos shingle, built-up, tile
- Tile**—hollow.

Benton & Benton, Archts., Wilson, N. C., wants prices on following for \$350,000, 10-story hotel at Hendersonville:

- Flooring**—composition, terrazzo and tile
- Limestone**
- Mail Chutes**
- Marble**
- Metal Doors**
- Terra Cotta Trim**
- Tile**—hollow and interior
- Steel Sash and Trim**
- Vaults**
- Wire Glass.**

Werner Co., Inc., Contrs., Commercial Bank Bldg., Shreveport, La., wants prices on following for \$375,000 Fair Park High School:

- Cast Stone**
- Electric Refrigerators**
- Flooring**—hardwood, linoleum, tile
- Incinerator**
- Limestone**
- Rolling Partitions**
- Roofing**—built-up
- Tile**—hollow
- Ventilators.**

Giesecke & Harris, Archts., 207 W. Seventh St., Austin, Tex., wants prices on following for 12-story office building:

- Cast Stone**
- Electric Refrigerators**
- Elevators**
- Flooring**—hardwood, linoleum, tile
- Incinerator**
- Mail Chutes**
- Marble**
- Roofing**—built-up
- Steel Sash and Trim**
- Tile**—gypsum
- Ventilators**

Brass or Bronze Work.

ington, D. C., wants prices on following for \$400,000, 9-story hotel at Portsmouth, Va.:

- Miller Engineering Co., Smith Bldg., Wash-**
- Dumb Waiters**
- Brass or Bronze Work**
- Electric Refrigerators**
- Elevators**
- Flooring**—hardwood, terrazzo and tile
- Incinerator**
- Limestone**
- Mail Chutes**
- Marble**
- Metal Doors**
- Roofing**—built-up
- Tile**—gypsum, hollow and interior
- Terra Cotta Trim**
- Vaults and Vault Lights**
- Ventilators**
- Wire Glass**

F. A. Harris, Archt., 301-302 Lafayette Arcade, Tampa, Fla., wants prices on following for dormitory, officers' quarters and power and laundry building, Florida Girls' Free Training School:

- Dumb Waiters**
- Electric Refrigeration**
- Flooring**—hardwood, linoleum, terrazzo
- Incinerator**
- Pumps** (two compression)
- Rolling Partitions**
- Roofing**—asbestos shingle and built-up
- Steel Sash and Trim**
- Tile**—gypsum, hollow, interior
- Ventilators**
- Well System**
- Waterworks System.**

John W. Cowper Co., Healey Bldg., Atlanta, Ga., wants bids until Feb. 24 on sub-contracts, including mechanical work, on sections F and G of Cuartel Barracks, Fort Benning, Ga.

Denis & Handy, Contrs., 348 Baronne St., New Orleans, La., want prices on following for \$13,000 dwelling:

Cast Stone
Electric Refrigerator
Flooring—hardwood, tile.

Mebane Baptist Church, H. P. Whitted, Chmn., Bldg Comm., wants prices on following for \$13,000 building, construction begun:

Flooring—hardwood
Metal Doors
Roofing—slate.

E. C. Royle & Co., Archts.-Contrs., Pine Bluff, Ark., want prices on following for \$20,000 2-story store and office building:

Flooring—hardwood
Marble
Roofing—built-up
Steel Sash and Trim
Wire Glass.

J. W. Teeter, Prescott, Ark., wants prices on following for \$58,000 Methodist Church:

Flooring—hardwood, linoleum
Rolling Partitions
Roofing
Terra Cotta Trim.

W. W. Van Meter, Archt., 606 Commercial Place, New Orleans, La., wants prices on following for \$120,000 church auditorium:

Limestone
Roofing—slate
Tile—gypsum
Brass or Bronze Work.
Also wants data on:
Acoustical Plasters, etc.
Art Glass
Church Furniture—communion, lectern, pews, pulpit
Pipe Organ.

Herbert J. West, Bldr., 34 Knickerbocker Bldg., Baltimore, Md., wants prices on following for seven \$13,000 frame cottages:

Electric Refrigerators
Flooring—oak, tile
Plaster Board
Roofing—slate.

Bids Asked

Air Compressor (Electrical).—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Feb. 10 for electrical air compressors. Sch. 1856.

Air Compressor.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 4 for air compressor outfit, tankless, complete with two cylinder pump, electric type, etc.

Arsenate of Lead.—Director of Purchase and Sales, Department of Agriculture, Washington, D. C.—Receives bids Feb. 21 for 85 tons arsenate of lead.

Automobile Truck, etc.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 10 for automobile truck and bus.

Barges.—Third Mississippi River Dist., Box 404, Vicksburg, Miss.—Receives bids March 6 to construct 2 steel hull mooring barges; delivery Vicksburg.

Boiler.—Quartermaster, Ft. Brown, Tex.—Receives bids Feb. 9 for 1 horizontal boiler, completed with regular equipment for ready installation.

Boiler Room Equipment.—Board of Public Service, St. Louis, Mo.—Receives bids Feb. 21 for installing breeching for four 500 h.p. boilers in Municipal Service Bldg., 2 forced draft fans including turbine drives and air ducts for boilers, and 2 boiler feed and 1 house pump.

Bolts.—Pur. Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 6 for 24,000 stove bolts.

Bridges.—State of Missouri receives bids for 29 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—State of Arkansas receives bids for 7 bridges. See Construction News—Roads, Streets, Paving.

Cabinets.—Pur. Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 3 for 50 cash and stamp cabinets.

Case and Table.—Purchasing Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 6 for facing slip case and table.

Case and Table.—Pur. Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 6 for facing slip case and table, steel.

Castings.—U. S. Engr., Huntington, W. Va.—Receives bids Feb. 6 for 14 horses and 15 structural steel pins.

Clothing.—Commrs. of Indian Affairs, Washington, D. C.—Receives bids Feb. 20 for clothing, piece goods, etc., under Sch. 7 during fiscal year 1929; specifications include corduroy clothing; o.d. cotton clothing; woolen clothing; denim overalls; white duck clothing; blue denim; kersey, etc.

Cotton Tape, etc.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 3 for 51,000 yds. white cotton tape, different widths; 250 doz. spools sewing thread; 3060 doz. fresh water pearl buttons, different sizes, etc.

Culverts.—Newkirk, Okla., receives bids to construct and repair 7 culverts. See Construction News—Bridges, Culverts, Viaducts.

Drag.—U. S. Engr., Savannah, Ga.—Receives bids Feb. 10 for cast steel drag and additional steel bottom half.

Drainage.—Cedar Hammock Drainage Dist. Supvrs., Hubert Blakey, Sec., Bradenton Bank Bldg., Bradenton, Fla.—Receives bids Feb. 25 for construction of Cedar Hammock main canal, Palma Sola section main canal and lateral No. B, in Manatee County; Frank K. Webb and Associates, Engrs.

Drainage.—R. H. Lovemore, Chmn., Robeson County Drainage Dist., No. 2, Pembroke, N. C.—Receives bids Feb. 15 to construct system of drainage canals and all work and structures incident thereto in Robeson County; excavation open canals, 210,000 cu. yds.; clearing right of way about 180 acres; wooden bridges, etc.; F. F. Wetmore, Engr., Lumberton.

Dredging and Rock Removal.—Fort Pierce Inlet Dist. Commrs., E. L. Price, Chmn., Fort Pierce, Fla.—Receives bids March 1 for dredging and rock removal; Gilbert A. Youngberg, Ch. Engr., 21 Laura St., Jacksonville.

Electric Refrigerator.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 9 for automatic electric refrigerator for U. S. V. Hospital, Perry Point, Md.

Electric Service Lines.—Navy Dept., Washington, D. C.—Receives bids Feb. 8 for electric service lines at naval radio compass station, Galveston, Tex.

Exciter Sets.—Marine Corp., Quartermaster's Dept., Washington, D. C.—Receives bids Feb. 9 to furnish one exciter set; delivery Paris Island, Port Royal, S. C. Sch. 415.

Feed Mill.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 6 for feed mill complete, consisting of grinding mill, sacking elevator, motor, starting switch, etc.; 12 sets extra burrs; 72 bolts and nuts for bolting extra burrs.

Fire Fighting Equipment.—City Council, Belzoni, Miss.—Receives bids Feb. 7 for motor driven combination chemical and hose truck, 35 gal. chemical tank, one 32 or longer extension ladder, hose body, etc.; or motor driven triple combination pumper not to exceed 500 gal. per min., 35 gal. tank or larger, 32 or longer extension ladder, etc.; F. M. Pepper, City Clk.

Floor Machines.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 7 for six 18-in., nine 12-in. floor machines, etc.

Gin Machinery and Motors.—W. B. deYampert, Wilmet, Ark.—Receives bids April 1 for gin machinery and motors.

Grading.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Grain Handling Equipment.—Wendland Grain Co., Temple, Tex.—Wants prices on equipment for handling bulk grain.

Laundry Equipment.—Commrs., District of Columbia, D. C.—Receives bids Feb. 6 for furnishing and setting up laundry equipment for use at Home of Aged and Infirm.

Laundry Presses.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 4 for laundry presses.

Lawn Mower (Power Driven).—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 7 for power-driven lawn mower.

Lining Shaft.—U. S. Engr., Navy Bldg., Washington, D. C.—Receives bids Mar. 1 for lining air shaft old Washington city water supply tunnel and for placing concrete struts to support side walls of tunnel.

Map Instruments.—Department of Interior, Office of Sec., 144 Interior Bldg., Washington, D. C.—Receives bids Feb. 4 for furnishing and installing one instrument complete capable of producing topographic maps from aerial photographs, etc.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Feb. 4 for following: Sch. 2453:

Cable, flexible cord, connecting wire, fuses, resistance units, pull boxes, sockets, reflectors, tape, lead sleeving, card holders, stocks and dies, pipe dies, glass cutters, hammers, etc.

Miscellaneous Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Feb. 6 to furnish 300 lbs. laundry starch, 3 rolls cotton padding, delivery Quantico, Va., Sch. 408; also 100,000 lbs. sugar, delivery Parris Island (Port Royal), S. C., Sch. 403.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Feb. 11 for following: Circular No. 2545: Driving wheel tires, tile, circular saws, electric brazers, pipe bends, valves, twist drills, bolts, rivets, gauge glasses, china ware, iron or steel cement, liquid bronze, white lead, electric lighting fixtures, friction covered leather, etc.

Motor Test Building.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Receives bids Feb. 8 for motor test building at naval air station, Pensacola, Fla.; 1-story, 161x25 ft., plain and reinforced concrete, built-up roofing, sheet metal work, steel and iron work, tubular steel doors, woodwork, floor drains, hardware and painting.

Nuts.—Pur. Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 6 for 30,000 nuts.

Paint.—U. S. Engr., Huntington, W. Va.—Receives bids Feb. 4 for 6000 lbs. white lead and 10,000 lbs. red lead.

Painting, etc.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Receives bids Feb. 8 for painting exterior woodwork and interior of building at navy yard, Charleston, C. S.

Paper.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 8 for 4000 lbs. (100 rolls) smooth finish, buff color paper; 480 lbs. (24 rolls) index Bristol and 2400 lbs. (50 rolls) buff color, 8-in. wide paper.

Paper.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 7 for 24,548.6 lbs. white, soft finish, mimeograph paper; 4000 reams 8x10½ and 1250 reams 8x12½-in.

Paper.—Purchasing Agt., Government Printing Office, Washington, D. C.—Receives bids Feb. 3 for 50,000 lbs. white sulphite writing paper.

Paving.—Covington, La. See Construction News—Roads, Streets, Paving.

Paving.—Jacksonville, Fla. See Construction News—Roads, Streets, Paving.

Paving.—Roanoke, Va. See Construction News—Roads, Streets, Paving.

Paving.—Leesburg, Fla. See Construction News—Roads, Streets, Paving.

Paving.—Little Rock, Ark. See Construction News—Roads, Streets, Paving.

Paving.—Oklahoma City. See Construction News—Roads, Streets, Paving.

Pipe (Steel).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Feb. 11 to furnish 2000 ft. welded, black, type A and 2000 ft. welded galvanized type A steel pipe, etc.; delivery Quantico, Va. Sch. 421.

Pipe.—U. S. Engr., Jacksonville, Fla.—Receives bids Feb. 4 for 21 sections of hammer-welded pipe.

Pipe.—U. S. Engr., Norfolk, Va.—Receives bids Feb. 7 for 84 twelve ft. sections of 30-in. shore pipe.

Plumbing Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Feb. 10 to furnish plumbing supplies; delivery Quantico, Va. Sch. 419.

Radio Receiving Set.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 6 for radio receiving set.

Road.—Inverness, Fla. See Construction News—Roads, Streets, Paving.

Road.—State of Arkansas receives bids for 4 roads. See Construction News—Roads, Streets, Paving.

Road.—DeLand, Fla. See Construction News—Roads, Streets, Paving.

Road.—Panhandle, Tex. See Construction News—Roads, Streets, Paving.

Road.—Covington, La. See Construction News—Roads, Streets, Paving.

Roads.—State of Florida receives bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas receives bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Missouri receives bids for 19 roads. See Construction News—Roads, Streets, Paving.

Roads.—Robbinsville, N. C. See Construction News—Roads, Streets, Paving.

Roads.—State of South Carolina receives bids for 13 roads. See Construction News—Roads, Streets, Paving.

Road Building Materials.—Board of Awards, Office of City Register, Baltimore, Md.—Receives bids Feb. 8 for crushed stone; gravel and sand; copper slag; cinders and vitrified paving brick; plans at Bureau of Highways, Room 207½ City Hall; Nathan L. Smith, Highways Engr.

Rubber Stoppers.—Director of Purchase and Sales, Department of Agriculture, Washington, D. C.—Receives bids Feb. 6 for 100,000 rubber stoppers.

Safes.—Purchasing Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 8 for 15 small and 15 large safes.

School Furniture and Supplies.—Board of Awards, Office of City Register, Baltimore, Md.—Receives bids Feb. 8 for janitors' supplies; materials for repair shop and furniture for Department of Education; Joshua R. Jolly, Acting Sec., Board of School Com., Mrs., Madison and Lafayette Aves.

Screws and Bolts.—Purchasing Agt., Post Office Dept., Washington, D. C.—Receives bids Feb. 3 for 25,000 cap screws and 5000 carriage bolts.

Sidewalks.—Macon, Mo. See Construction News—Roads, Streets, Paving.

Steel Hull.—Mississippi River Comsn., First and Second Dist., Memphis, Tenn.—Receives bids Feb. 7 to construct and deliver f. o. b. builders shipyard, one steel hull for mat building plant.

Street.—Parkersburg, W. Va. See Construction News—Roads, Streets, Paving.

Street.—Oakdale, La. See Construction News—Roads, Streets, Paving.

Street.—Covington, La. See Construction News—Roads, Streets, Paving.

Timber.—U. S. Engr., Nashville, Tenn.—Receives bids Feb. 18 for 66 pcs. white oak timber.

Tractors.—C. G. Durham, Sec., Police Jury, Rapides Parish, Alexandria, La.—Receives bids Feb. 14 to purchase two 5 ton tractors.

Truck Chassis.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Feb. 8 to furnish one 1½ ton truck chassis with cab; delivery Philadelphia, Pa. Sch. 409.

Unwatering Lock Chambers.—U. S. Engr., Louisville, Ky.—Receives bids Feb. 27 for unwatering lock chamber of lock No. 51, Ohio River.

Viaduct.—Shreveport, La. See Construction News—Bridges, Culverts, Viaducts.

Wall Cabinets.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 7 for 200 wall cabinets.

Water Softener, Tank, etc.—Board of Public Service, City Hall, St. Louis, Mo.—Receives bids Feb. 7 for installing cast iron surge tank; 1 single unit Zeolite water softener; installing deaerating feed water heater and vent condenser with integral V notch meter in Municipal Service Bldg.

Water Works Equipment.—City of Greensboro, N. C., P. C. Painter, Mgr.—Receives bids Feb. 7 for furnishing materials, equipment and labor for installing ash handling and storage facilities at City pumping station, on Battleground Rd.; also for furnishing materials and labor and constructing radial brick or reinforced concrete stock at city pumping station.

X-Ray Developing Powder.—U. S. Veterans' Bureau, Supply Div., Washington, D. C.—Receives bids Feb. 6 for 2000 pkgs. X-ray developing powder.

Trade Literature

Sullivan Machinery's Group of Bulletins.

The Sullivan Machinery Company of Chicago has published a 32-page illustrated booklet, with the title "Speed Up With Air." It contains a large number of interesting pictures, showing installations of the Sullivan equipment on various kinds of work in different parts of the country, all of them instructive and entertaining. Complete information is given concerning the Sullivan products. There is also the Sullivan Bulletin No. 83-H on vertical air compressors, direct motor-driven WL-22 and WL-44. This represents a new line of compressors. The first of these

is a two-cylinder and the second a four-cylinder type, and they are designed for shop, power plant, construction and other industrial requirements which need a relatively small amount of compressed air and where compactness, small floor space, continuous operation, portability and practically automatic control are important. Other bulletins relate to electric portable hoists, belt-driven, single-stage air compressors, portable drill steel furnaces, rotator rock drills and drill-sharpening equipment.

Jones Speed Reducer Catalog.

The W. A. Jones Foundry and Machine Company, Chicago, Ill., have published an artistic catalogue of 56 pages, with beautifully embossed cover in blue fabrikoid in imitation of seal leather. The booklet gives complete information concerning the Jones worm gear speed reducers. The advantages of these reducers are described thus: "Compact right-angle drive; occupies small floor space; permits placing motor and reduction gear adjacent to driven machine; can often be used in limited area where a different type of drive would interfere with aisles, columns, walls, partitions or other machinery located nearby; extremely simple in construction." The pictures are finely done and many of them show details of the machines.

Oxy-Acetylene Welding Described.

"Oxy-Acetylene Tips" for January contains a number of interesting articles and illustrations, among them being a picture showing the operation of laying a 12-inch gas line through swamps in the southern part of Louisiana. Another contribution is an article about "Welding in the Sugar Industry," which tells about the advantages of oxy-acetylene welding for eliminating much waste and increasing efficiency in all phases of work in that line of production. There is a deal of other information of value concerning the excellence of ox-welding in various lines. The magazine is issued by the Linde Air Products Company, 30 East 42d street, New York city.

New Albaugh-Dover Bulletin.

The Albaugh-Dover Manufacturing Company, Chicago, Ill., have issued Bulletin A, giving complete information about their high-efficiency speed reducers, which are applicable for drives to conveyors, elevators, escalators, hoists, stokers, rotary kilns, grinders, crushers, agitators, mixers, line shafts, machine tools, pumps, fans, calendars, ore roasters, water screws and other equipment that must run at lower speeds than electric motors or similar sources of power. The bulletin is in booklet form and is fully illustrated.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Agents for Henry Hope & Sons Casements.

Austin K. Hanks, Inc., with offices at Greensboro and Charlotte, N. C., have been appointed exclusive sales agents in North Carolina and South Carolina for Henry Hope & Sons of Bridgeport, Conn., manufacturers of steel casements, leaded glazing and decorative lead work, who have been established for over a century. They are offering this year the leaded light casement with the cleaning hinge, complete with an interior automatic (handle type operated) adjuster, with an automatic locking device, also complete with a fitted aluminum frame, copper bronze insect screen. It is noted that this combination is especially suited for use in the South. The Hanks organization, who are well known as manufacturers' sales representatives, also remark that the new Etowah buff brick manufactured in the Carolinas is now on the market, and they are State agents for it. Dr. A. F. Graeves-Walker, professor of ceramic engineering at the North Carolina State College, Raleigh, has expressed a high opinion of this brick in a letter to the firm.

New Offices for Allis-Chalmers.

The Allis-Chalmers Manufacturing Company of Milwaukee, Wis., has opened a new district sales office at Phoenix, Ariz., J. B. Cooper being manager, with office at 308 Heard Building. His work will cover Arizona, New Mexico and the northern part of old Mexico. He was formerly at Los Angeles. The company has also opened a branch under the charge of Earle R. Hury at 619 Frost National Bank Building, San Antonio, Texas, this being a branch of the Dallas district office. A branch of the Detroit (Mich.) district office is also being opened under the charge of G. C. Culver at the Weiss Service Building, Grand Rapids, Mich.

Important Announcement.

Announcement has been made, dated January 9, by the Carbide Manufacturing Company and the American Carbollite Company, Inc., Duluth, Minn., that the last-named company will hereafter merchandise the entire output of the Carbide Manufacturing Company, also that it has appointed the Oxweld Acetylene Company to be its exclusive agent for the sale of Carbide lighting, welding and cutting equipment, and the Union Carbide Sales Company to be its exclusive agent for the sale of Carbide cakes. It is further stated that orders should be mailed to the same address as heretofore.

Edward L. Ryerson.

Edward L. Ryerson, chairman of the board of directors of Joseph T. Ryerson & Son, Inc., of Chicago, died on January 19 at his home there. He was the youngest son of Joseph Turner Ryerson and was born in that city November 24, 1854. Graduating from Yale University in 1876, he became connected with the iron and steel business of his father and in 1878 was made a partner, the name being changed to Joseph T. Ryerson & Son. Upon the death of his father in 1883 he became head of the business, which was founded in 1842, and in 1888, when the business was incorporated, he was its first president. In 1911 he retired as president, becoming chairman of the board. He was also a director and member of the executive committee of the Illinois Merchants Trust Company. He was furthermore active in welfare work and in various ways to advance the interests of his city and its people. One of his sons, Joseph T. Ryerson, is now president of the firm, while two other sons, Donald M. and Edward L. Ryerson, respectively, fill the positions of vice-president and general manager and vice-president.

New Electric Light Equipment.

One of many new developments of industrial equipment announced by the Ivanhoe division of the Miller Company, Cleveland, Ohio, is a complete line of heavy-duty reflectors and holders for electric illumination. This is a new line of porcelain enameled steel reflectors in the R. L. M. dome, shallow dome, standard bowl, standard angle and classteel diffuser types, with a rolled, threaded neck of heavy-gauge copper. These collars, it is stated, are securely locked into the form and will not become loosened or turn in service. Holders are available for these reflectors in cast aluminum and stamped enameled steel for attachment direct to the outlet box. Also suspension types tapped for 1/2-inch pipe of stamped enameled steel or cast iron. These holders are supplied with either medium or mogul porcelain sockets.

Supplemental Bonuses for Workers.

The National Industrial Conference Board, Inc., 247 Park avenue, New York, has published in a book of 60 pages a report entitled "Supplemental Bonuses for Wage Earners, Supervisors and Executives." It is an account of industry's experience with the policy of rewarding excellence of performance and loyal service in preference to imposing penalties for deficiencies of performance on the part of anyone in either of the three classes of workers named. Some of the leading types of plans are described, the reasons for their introduction are given, and as far as possible results are analyzed; but, as is said in the foreword, a final evaluation of these plans or of any of them would at this time be premature. The report is the outcome of an investigation conducted by Jules Friedel and assistants of the Conference Board's research staff.

Names of Makers of Sheet Steel Products.

All manufacturers of products fabricated of sheet steel are being urged by the Sheet Steel Trade Extension Committee, Oliver Building, Pittsburgh, Pa., to send to it within a month a complete list of their products and trade names so they may have full representation in the second edition of the sheet-steel directory, which is entitled "5000 Sheet Steel Products and Who Make Them." It is stated that all listings of names, products and trade names are made without charge, and that no advertising is accepted for the directory. The purpose of this buyers' guide is to enable one to know at a moment's notice where any product of sheet steel can be obtained. The directory is published at the expense of the sheet-steel manufacturers in order to extend the use of sheet steel, and it is distributed free to all large buyers. Listings are limited to manufacturers; jobbers and distributors will not be included.

Rivets Shipped By Airplane.

Joseph T. Ryerson & Son, Inc., of Chicago, Ill., who have for years made a point of rapid service and shipments to customers of iron, steel and machinery, now report a shipment by airplane. The Iowa City Iron Works, Iowa City, Iowa, telegraphed for five pounds of rivets. It was late in the afternoon and the rivets were needed immediately. The order was rushed to the American Railway Express air station in time to catch the 7.50 P. M. airplane express. An hour and fifty minutes later the airplane landed in Iowa City, 236 miles distant, and the rivets were in use that night. It is further remarked that a shaft or a beam could be shipped with the same celerity, if need be. Once the firm shipped a shaft to a small town where the express train did not stop, but they arranged for the shaft to be thrown off and it reached the customer on time, avoiding a shutdown.

New Circular Wire Brush.

A new type of circular wire brush section, which, it is stated, simplifies the brush problems met with in scratch-brushing, cleaning and rough polishing, was recently placed on the market by the Specialty Manufacturing Company of Cleveland, Ohio. These brushes, the bristles of which may be made of either steel or brass wire, or else of tampico fiber, are held in place on an accurately balanced lead center by means of two stampings provided with projecting teeth that pass through the tufts of wires from each side and the holes in the plates. The projecting ends of the teeth are bent over and clinched against the surfaces of the opposite stampings, which effectively prevents the tufts from working loose even by long usage. The ends of the wires are carefully trimmed so that the brush is truly circular.

Southern Manufacturing Co. Election.

At the annual meeting of the Southern Manufacturing Company, Athens, Ga., on January 18, D. C. Collier of Barnesville, Ga., was elected president to succeed the late Billups Phinizy. For some years he has been a leader in cotton manufacturing and was associated with his father in the ownership and management of a large mill at Barnesville. He graduated at Georgia Tech. C. H. Newton, who has been associated with the company since its organization, was elected vice-president and chairman of the board. H. F. Patat, for 20 years with the company, advancing to the position of cashier, has been elected secretary and treasurer. The board of directors, in addition to these three officers, includes Hughes Spalding, J. M. Billings and A. E. Bird.

New Natural Gas and Oil Lines.

Waskom, Texas, January 28—[Special.]—G. H. Beach and George Bushart of Wichita, Kan., and associates will construct a natural gas pipe line from the Waskom field to Sulphur Springs, Texas, approximately 200 miles, to Jefferson, Daingerfield, Hughes Springs, Avinger, Pittsburg, Mt. Vernon, Mt. Pleasant, Gilmer, Cason and other towns. Franchises for distributing systems have been obtained. Also, a survey for an oil pipe line to run from the Yates field in Pecos county to Texas City is being made by the United Producers Pipe Line Company, to be more than 500 miles long.

\$400,000 Soapstone Plant for North Carolina.

Wade H. Phillips, director of the North Carolina Department of Conservation and Development, Raleigh, advises that the Virginia-Carolina Soapstone Company of Roanoke, Va., is promoting a \$400,000 soapstone plant near West Jefferson, in Ashe county, North Carolina. Core drilling will be made and plans prepared to greatly increase the output, which is used in laboratories and chemical plants. Preparations are being made, it is said, to produce serpentine, a decorative material of dark green color used for paneling in interior decoration.

\$450,000 Federal Reserve Bank for Memphis.

Memphis, Tenn.—The Federal Reserve Bank of St. Louis plans to erect a \$450,000 branch building in this city, approval of the project having been given by the Federal Reserve Board, Washington. The building will be about 80 by 100 feet. W. H. Glasgow is manager of the local branch.

\$5,000,000 Investment Firm for Washington.

Washington, D. C.—Investors of Washington, Inc., have organized here with an authorized capital stock of \$5,000,000 to operate as a management type of trust. Officers of the company include Frederic A. Delano, chairman of directors; John F. Dryden, president; Charles Carroll Morgan, vice-president and treasurer; Edward P. Herman, secretary, and Winslow B. Van Devanter, manager of the local office.

Estimates Texas Record Wool Clip.

San Angelo, Texas, January 28—[Special.]—It is estimated that approximately 3,000,000 pounds of the coming spring wool clip of West Texas have been contracted for at an average price of 40 cents a pound, and with a top price of 42 cents in some cases. Joe B. Blakeney of San Angelo, resident buyer for Hollowell, Jones & Donald of Boston, estimates that Texas' 1928 spring wool crop will total 30,000,000 pounds, an increase by 3,000,000 pounds over the 1927 production, which will set a new record.

Rehabilitate Mississippi Beekeeping Industry.

On the outskirts of New Orleans a concentration camp has been formed which contains over 1000 colonies of bees that are to be distributed to Louisiana beekeepers who lost their bees in the recent flood. The American Red Cross, bee-supply manufacturers and beekeepers contributed liberally to this work, and the railroads and express companies also give their services free to assist in the re-establishment of beekeeping in that part of the valley which was destroyed when the levees gave way.

FINANCIAL NEWS

Bond Issues Proposed

Ala., Fairfield—School—City votes Mar. 6 on \$150,000 bonds. Address City Clk. 12-15

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, reported, will sell in Mar. \$13,000,000 State of Arkansas bonds.

Ark., Dover—Comms. of Sidewalk Improvement Dist. No. 2, S. Y. Pointer, receive bids Feb. 15 for \$10,500 district bonds.

Ark., Pine Bluff—Public Library—City, W. L. Toney, Mayor, defeated \$175,000 bonds. 12-15

Ark., Texarkana—Street, Bridge—City, S. C. Nancarrow, Mayor, reported, votes Feb. 14 on \$39,000 bonds; \$24,000, bridges; \$15,000, street. 12-22

Ark., Texarkana—Airport—City, S. C. Nancarrow, Mayor, votes Feb. 14 on \$35,000 bonds. 12-29

Fla., Apalachicola—Water Mains—City votes Feb. 9 on \$15,000 bonds; C. T. Lanier, Chmn. of Committee of Project.

Fla., Bonifay—Sewer—City considering bond issue; J. B. McCrary Engineering Corp., Atlanta.

Fla., Bradenton—Drainage—Board of Supvrs. Cedar Hammock Drainage Dist., Manatee County, Hubert Blakey, Sec., receives bids Feb. 25 for \$70,000 6% \$1000 denom. bonds.

Fla., Clearwater—City Comm., H. H. Baskin, Mayor, reported, plans receiving bids on \$400,000 refunding and deficiency bonds to finance city government through coming summer.

Fla., Jacksonville—Electric Light Plant—City, M. W. Bishop, Sec., receives bids Feb. 16 for \$800,000, 5%, \$1,000 denom. improvement bonds. 1-26

Fla., Miami—Road—Dade County Comms., E. B. Leatherman, Clk., receive bids Feb. 28 for \$950,000 5% \$1000 denom. bonds; \$800,000, general highway; \$150,000, Baker's Haulover. 1-26

Fla., Ocala—School—Marion County Board of Public Instruction, H. G. Shealy, Sec., receives bids Feb. 9 for \$30,000, 5½% coupon Bellview Special Tax School Dist. No. 3 bonds.

Fla., West Palm Beach—School—Palm Beach County Dept. of Public Instruction, Joe A. Youngblood, Supt., receives bids Feb. 15 for \$175,000, 6%, \$1000 denom. Special Tax School Dist. No. 4 bonds.

Fla., West Palm Beach—Refunding—City Comm., A. E. Parker, Mgr., reported, considering \$931,000 6% bond issue; Arthur S. Hobby, City Engr.

Ga., Moultrie—Improvement—City voted \$100,000 bonds; \$70,000, school; \$23,000, sewer extensions; \$7,000, water main extension. Address City Clk. 12-15

Ga., Sasser—Water Works—City, J. H. Lewis, Clk., reported, votes Feb. 10 on \$10,000 bonds.

La., Franklin—Bridge—St. Mary Parish Police Jury, reported, plans calling election soon on \$20,000 bonds.

La., Ville Platte—Drainage—Ville Platte Gravity Drainage Dist., reported, voted \$65,000 bonds. Address City Commrs.

La., Ville Platte—Road—Evangeline Parish Police Jury may call \$40,000 bond election in new Chataignier Road Dist. No. 1.

Md., Rockville—Road—Montgomery County Comms., Berry E. Clark, Clk., receive bids Feb. 7 for \$400,000, 4½%, \$1,000 denom. bonds.

Md., Williamsport—Burgess and Comms., William D. Byron, Second Burgess, Charles W. Lizer, Clk., receive bids Feb. 6 for \$75,000, 4½%, \$1,000 denom. registered coupon water bonds.

Miss., Bay St. Louis—Sidewalk—Board of Mayor and Comms. receive bids Feb. 6 for \$12,000, 5¼, 5½ and 6%, \$1,000 denom. bonds; Sylvan J. Lander, Public Utility Commr. and Clk.

Miss., Brookhaven—Lincoln County Board of Supvrs., W. D. Lofton, Clk., plans \$45,000 bond issue to build jail and repair courthouse.

Miss., Georgetown—School—Board of Trustees of Union Consolidated School Dist., Simpson County, plans calling \$50,000 bond election.

Miss., Gulfport—Bridge—Harrison County Board of Supvrs. considering bond election.

Miss., Senatobia—School—City votes Feb. 14 on \$35,000 bonds. Address City Clk.

Miss., West Point—School—Town voted \$150,000 bonds. Address Mayor and Board of Selectmen; plans selling bonds. 1-5

Mo., Clarence—School—City voted \$50,000 bonds. Address City Clk.

Mo., St. Louis—Airport—City, Mayor Miller, reported, considering \$136,000 bond issue.

Mo., Sedalia—Hospital—City may vote Mar. 6 on \$200,000 bonds. Address City Clk.

Mo., Sedalia—School—City considering \$250,000 bond issue. Address City Clk.

N. C., Asheville—Water Works—Board of Trustees, Woodfin Sanitary Sewer Dist. receives bids Feb. 10 for \$500,000 \$1,000 denom. bonds for dist.

N. C., Hayesville—Water Works, Sewer—Town, reported, plans \$25,000 bond issue. Address The Mayor.

N. C., Hickory—Improvement—City, H. L. Yoder, Clk., receives bids Feb. 7 for \$300,000, 4½%, \$1,000 denom. gold bonds; \$250,000, paving; \$50,000, water works and sewer. 1-12

N. C., Jackson—School Funding—Board of Comms., S. J. Calvert, Clk., receives bids Feb. 15 for \$55,000, \$1,000 denom. bonds; bidders to name rate of interest.

N. C., Winston-Salem—School—City votes Mar. 6 on \$2,500,000 bonds. Address City Clk.

Okla., Altus—Improvement—City considering \$250,000 bond election during early part of 1928, for public parks and playground, water works, sewer system extension, paving. Address City Clk. 1-19

Okla., Arapaho—Road—Custer County votes Feb. 27 on \$900,000 bonds. Address County Comms. 11-24

Okla., Guymon—Sewer—City, Ernest Klooz, Clk., reported, receive bids Feb. 9 for \$50,000, 5¼%, \$1,000 denom. bonds.

Okla., Holdenville—Bridge—City plans selling \$50,000 bonds. Address City Clk. 1-15

Okla., Holdenville—School—City voted \$40,000 bonds; James D. Rives, Pres., board of Education. 1-19

Okla., Lovell—Sewage Disposal Plant—City may vote soon on \$10,000. Address City Clk.

Okla., Medford—School—Grant County Consolidated School Dist. No. 1 voted \$35,000 bonds. Address Board of Trustees.

Okla., Muskogee—City Hall—City voted \$400,000 bonds; Paul Williams, Mayor. 1-12

Okla., Tulsa—School—City, reported, defeated \$1,500,000 bond issue. Address School Board. 1-19

Okla., Tulsa—Park—City, Herman E. Newblock, Mayor, receives bids in Feb. on \$250,000 bonds; bidders to name interest rate. 12-15

Okla., Weleetka—Water Works, Electric Light System—City voted \$45,000 bonds. Address City Clk.

S. C., Chester—Road—Chester County Board of Directors, W. Holmes Hardin, Chmn., receives bids Feb. 10 for \$800,000, \$1,000 denom. bonds.

S. C., Lancaster—Paving Assessment—Town, E. B. Roddey, Mayor, reported, receives bids Feb. 8 for \$144,000 6% certificates.

S. C., Lexington—Paving—City voted \$25,000 bonds. Address City Clk. 1-5

S. C., Orangeburg—Highway—Orangeburg County Highway Comm., H. E. Moore, Clk., reported, plans selling \$550,000 bonds.

Tenn., Cookeville—Road—Putnam County, reported, authorized sale of \$94,000 bonds. Address County Comms.

Tenn., Kingsport—Water Works—City, Board of Mayor and Aldermen, votes Mar. 3 on \$350,000 bonds. 1-26

Tenn., Springfield—Improvement—City receives bids Feb. 15 for \$225,000, 5% coupon bonds; \$125,000, sewer; \$100,000, street. 1-12

Tex., Alpine—Water Works, Sewer—City plans voting soon on \$100,000 bonds. Address City Clk.

Tex., Angleton—Road—Brazoria County, Scott Gaines, Judge, votes Feb. 11 on \$100,000 bonds.

Tex., Center—Road—Shelby County, F. C. Powell, Judge, votes Feb. 4 on \$200,000 bonds; Road Dist. No. 2, \$100,000; Road Dist. No. 6, \$100,000. 1-5

Tex., Clarendon—Road—Donley County plans bond election. Address County Comms.

Tex., Lott—Sewerage System—City votes in near future on \$34,000 bonds. Address City Clk.

Tex., Midland—Refunding—City, B. Frank Haag, Mayor, votes Feb. 6 on \$68,000 bonds.

Tex., Rockdale—Paving—City, Mayor Meyer, contemplates \$90,000 bond election.

Tex., San Angelo—School—Lakeview Independent School Dist. may vote on \$60,000 bonds; R. L. Probst, R. J. Alexander, Trustees.

Tex., San Benito—Improvement—City considering \$100,000 bond election for airport, golf course, hospital, paving and park. Address City Clk.

Tex., Waxahachie—Road—Ellis County, Dist. No. 4, votes Feb. 21 on \$185,000 bonds. Address County Comms. 1-12

Tex., Yoakum—Sewer—City, C. C. Crutchfield, Clk., plans selling \$70,000, \$1,000 denom. bonds.

Va., Richmond—Street—City, F. Fulmer Bright, Mayor, reported, considering \$500,000 bond issue.

Va., Tazewell—Memorial Hall—Towns of Tazewell and North Tazewell, considering \$25,000 bond issue. Address Town Clk.

W. Va., Fairmont—Road—Marion County, Union Dist., votes Feb. 28 on \$134,000 bonds; Lee N. Satterfield, County Clk. 11-3

Bond Issues Sold

Ala., Atmore—Water Works—City, reported, sold \$20,000 bonds to Marx & Co., Birmingham, at premium of \$753.

Fla., Daytona Beach—Improvement—City, James T. Nelson, Mgr., sold \$163,000, 6%, \$1,000 denom. bonds to W. L. Slayton & Co., Toledo, Ohio, at premium of \$5,802. 1-5

Fla., Tampa—Road—Hillsborough County Comms., W. A. Dickenson, Clk., sold \$80,000, 6%, \$1,000 denom. Palm River Special Road and Bridge Dist. bonds to Cone Brothers Construction Co., Caesar and Walton St., at par and accrued interest. 12-29

Fla., Wewahatcha—School—City sold \$30,000 Special Tax School Dist. bonds to C. L. Morgan, Cashier, Wewahatcha State Bank.

Ga., Brunswick—Improvement—City Comm., Hugh Burford, Sec., sold \$200,000, 5%, \$1,000 denom. bonds to Courts & Co., Atlanta, at \$223,621. 1-19

Ga., Hortense—School—Brantley County, reported, sold \$20,000, 5.55%, \$500 denom. Consolidated School Dist. bonds to J. H. Hillman & Co., Atlanta, at premium of \$912.

La., Lafayette—Drainage—Lafayette Parish Police Jury, L. L. Judice, Sec., reported, sold to Lafayette Bank & Trust Co., \$35,000, Indian-Bayou Sub-Drainage Dist. bonds; \$15,000 Fourth Sub-Drainage Dist. bonds.

La., Mansfield—School—DeSoto Parish sold \$59,500, 4½%, \$1,000 and \$500 denom. Keatchie School Dist. bonds to City Savings Bank & Trust Co., Shreveport, at premium of \$800.

La., Opelousas—City, A. J. Perrault, Mayor, sold \$150,000 bonds to Interstate Bank & Trust Co., New Orleans; \$25,000 5% at par plus premium of \$125; \$50,000 5¼% at par plus premium of \$201; \$75,000 5% at par plus \$375. 1-12

Miss., Hollandale—School—Hibernia Securities Co., Hibernia Bldg., New Orleans, La., reported, purchased \$65,000, Hollandale Consolidated School Dist. bonds.

Miss., Holly Springs—Road—T. J. Wade, Chancery Clk., sold \$40,000 bonds to Sutherland, Barry & Cleaver, Inc., New Orleans, La., at par, accrued interest, premium of \$705, and expenses. 1-26

N. C., Carthage—School Funding—Moore County Comms., W. J. Harrington, Clk., reported, sold \$25,000, 4½%, \$1,000 denom. bonds to Wilson, Taylor & Co., Cincinnati, Ohio, at premium of \$60.

N. C., Charlotte—Anticipation—Mecklenburg County Comms., reported, sold \$375,000, 3.80% notes to Commercial National Bank, Charlotte.

N. C., Charlotte—Bond Anticipation—Mecklenburg County Comms., F. M. Gresham, sold \$250,000 notes to Merchants and Farmers Bank, Charlotte, at interest rate of 3.65. 1-26

N. C., Winston-Salem—Forsyth County Comms. reported, sold \$100,000 bonds to Farmers' National Bank & Trust Co., at rate of 3.90.

Okla., Blackwell—School—Board of Education, reported, sold \$285,000 Wellington bonds, jointly, to Commerce Trust Co. of Wichita, Kansas, and Fidelity Trust & Savings Co., Kansas City, Mo., at par and accrued interest.

(Continued on page 128)



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A N A T I O N A L O R G A N I Z A T I O N

FINANCIAL NEWS

(Continued from page 126)

Okla., Fort Cobb—Water Works, Sewer—City, reported, sold \$55,000 5½% bonds to American-First Trust Co., Oklahoma City, at par. 1-5

Okla., Orlando—High Line Construction—Farmers Bank of Orlando, reported, purchased \$12,000, 5½% coupon bonds at premium of \$50. 1-5

S. C., Bennettsville—School—City, reported, sold \$130,000 4½%, \$1000 denom. bonds to Ryan, Sutherland & Co., Toledo, Ohio, at premium of \$2675. 1-5

Tex., Corpus Christi—Port—Neuces County Navigation Dist. Comm., Robert Driscoll, Chmn., reported, sold \$1,500,000 5% bonds to Pearson B. Garrett of Garrett & Co., Dallas. 12-29

Tex., Lampasas—Improvement—City, H. V. Campbell, Mayor, reported, sold \$80,000, 4½% bonds to Caldwell & Co., Nashville, Tenn., at par, accrued interest and premium of \$236. 12-22

Tex., Miami — Sewer—City, reported, sold \$40,000, 5%, bonds to Jordan Construction Co., at par. 12-22

Building and Loan Associations

Mo., Cape Girardeau—Industrial Loan Co. of Cape Girardeau, authorized capital \$50,000, incorporated; L. C. Blattner, G. W. Gross, A. L. Harty. 1-5

Tex., Beaumont—Seaboard Building & Loan Assn., capital \$1,000,000, incorporated; E. W. Gross, 905 Irma St., C. W. Weidemann, Herman Weber, 311 Perlstein Bldg. 1-5

New Financial Corporations

Ala., Birmingham—General Mortgage Securities Corp., Jackson Bldg., organized; A. A. Adams, Sr., 2120 First Ave.; Ike Adler, 1530 S. 11th Ave., both Birmingham; J. L. Andrews, Sheffield. 1-5

D. C., Washington—Investors of Washington, Inc., Peoples Life Bldg., Fourteenth and H Sts., N. W., authorized capital \$5,000,000, organized; Frederic A. Delano, Chmn. of Directors; John F. Dryden, Pres.; Edward P. Herman of Childs, Jeffries & Co., 50 Congress St., Boston, Mass., Sec. 1-5

Fla., Palm Beach—U. S. Mortgage & Loan Co., capital \$100,000, chartered; G. W. Brown, Guaranty Bldg.; H. H. Curtis, 318 Croton Way; Francis B. McGarry. 1-5

La., DeRidder—City Savings Bank & Trust Co., capital \$50,000, chartered; P. W. West, Pres.; J. B. Jones, V-P. 1-5

La., Gibsland—First National Bank, capital \$25,000, chartered; H. A. Sherman, Pres.; L. T. Baker, Cashier. 1-5

Md., Baltimore—Excelsior Corp., Continental Bldg., incorporated; James R. Brewer, Jr.; Joseph Kerr, Rudolph F. Bolard, Jr., 933 N. Patterson Park Ave. 1-5

Md., Baltimore — Baltimore Investment Corp., Munsey Bldg., incorporated; Henry W. Schultheis, George R. Coléburn, Theodore R. Dankmeyer. 1-5

Mo., Joplin—Conqueror First National Bank of Joplin, 522 Main St., capital \$250,000, J. 1-5

G. Starr, Pres., 310 Moffett St.; H. A. Richardson, V-P., 420 N. Wall St.; A. G. Cofer, Cashier, 516 Connor St.; reorganization of Conqueror Trust Co. 1-26

Mo., Kansas City—Midland Securities Co., incorporated; Milton Goldstandt, Francis Abbott, both 601 Continental Bldg., B. F. Hurwitz. 1-26

Mo., Kansas City—Wilson D. Wood, Mortgage Co., 201 Pioneer Trust Bldg., 1016 Baltimore Ave., capital \$100,000, organized; Wilson D. Wood, Pres., Orlo Brown, Treas., both Security Bldg.; O. S. Pulliam, Sec., 3301 Bales Ave. 1-26

Mo., St. Louis—Lafayette South Side Investment Co., incorporated; A. C. F. Meyer, H. W. Gildehaus, John F. Queenby. 1-26

N. C., Fayetteville—Cumberland National Bank of Fayetteville, capital \$150,000, chartered; Frank H. Stedman, Pres.; Albert Stewart, Cashier; conversion of Cumberland Savings & Trust Co. 1-26

Tex., Dallas—M. Fox Investment Co., Inc., capital \$50,000, incorporated; Dave, Max and Sarah Fox. 1-26

Tex., Glen Rose—First National Bank, capital \$25,000, chartered; Geo. P. Snyder, Pres.; A. C. Bridges, Cashier. 1-26

Tex., Lorena—First National Bank, H. J. Hudson, Pres., capital \$30,000, plans reorganizing; O. C. Stanford, present Cashier. 1-26

Tex., San Antonio—Peoples Loan & Trust Co., capital \$25,000, incorporated; J. P. Forrest, Jack E. Burke, 3927 Main St.; Marion Logan. 1-26

Tex., San Antonio—Peoples Investment Co., 120 Broadway, organized; Chas. D. Hall, Pres., 515 W. Magnolia St.; Leon Baer, V-P., Gunter Bldg. 1-26

Va., Richmond—Dominion Securities Corp., capital \$1,100,000, organized; Melville C. Branch, Pres., 1830 Monument Ave.; George Cole Scott, V-P., Mutual Bldg.; Walter A. Williams, Jr., Sec.-Treas., Travelers Bldg. 1-26

Guaranty National Bank, John D. Dyer, Pres.; C. A. Barrett, Cashier, 306 Main, Houston, Tex., increased capital, \$200,000 to \$300,000. 1-26

Abilene State Bank, A. E. Pool, Pres., Abilene, Tex., plans increasing capital \$100,000 to \$125,000. 1-26

Bank of Dillon, W.H. Muller, Pres., J. M. Sprunt, Cashier; First National Bank, R. D. Rogers, Pres., F. M. Pitts, Cashier; People's Bank, T. A. Dillon, Pres., T. W. Hamer, Cashier, all Dillon, S. C., consolidated, with combined resources of about \$1,250,000. 1-26

Farmers & Merchants Bank, J. P. Bray, Sr., Pres., Kingsport, Tenn., increased capital \$25,000 to \$100,000. 1-26

R. H. Grimmett, Pres. of Pauls Valley National Bank, Pauls Valley, purchased assets of First State Bank, controlling interest in First National Bank, both Maysville, Okla.; re-organized banks under name of First National Bank, combined capital and surplus, \$45,000; R. H. Grimmett, Pres.; Walter Cordell, V-P.; Murray Northcutt, Cashier. 1-26

Hearne Building & Loan Assn., Hearne, 1-26

Tex., plans increasing capital, \$350,000 to \$500,000. 1-26

First National Bank, W. S. Patten, Pres., W. H. Patten, Cashier, Edmond, Okla., increased capital, \$25,000 to \$40,000. 1-26

Guaranty Bond State Bank, W. J. Weatherby, Pres.; Joe P. Douglas, Cashier, Jacksonville, Tex., increased capital \$25,000 to \$50,000, and changed name to Texas State Bank. 1-26

George P. Snyder and associates purchased First National Bank of Glen Rose, Tex., to be known as First National Bank; George P. Snyder, Pres.; C. A. Bridges, V-P. and Cashier. 1-26

New Multi-Foote Specifications Out.

Seldom is there so attractively arranged and illustrated a catalogue of specifications offered highway contractors and engineers as the recent one put out by the Foote Company, Inc., of Nunda, N. Y. It describes in an easily understood manner the many new features of the Multi-Foote Paver for 1928 and the contents are divided into nine sections, which are indexed so that all section titles are visible at a glance. Power transmission is described in the first section, featuring the extensive use of Timken bearings. Section 2 is devoted to the power facilities, including an account of the new six-cylinder Hercules engine, which is optional equipment for the 1928 pavers. Caterpillar traction is the subject of section 3, and in the next part the exclusive double-cone drum and its fast, effective mixing are described. In section 5, which is devoted to the loading facilities and the raised center skip, a double-page spread of photographs has been inserted. Contractors and engineers may obtain the book either direct from the company or from Foote dealers. 1-26

Diamond Iron Works Bulletin.

The Diamond Iron Works of Minneapolis, Minn., manufacturers of sawmill and transmission machinery, have published a bulletin of 16 pages, comprehensively illustrated and covering in full their rock crusher and sand and gravel handling equipment. The new crusher, as well as their complete line of sand and gravel equipment, is described with full particulars. All of the equipment as shown is made in the company's own plant at Minneapolis and is in successful operation. A number of installations of these products have been made in Minnesota and Wisconsin and the company is projecting an extensive sales campaign. Sales representatives are to be appointed in different sections of the country. 1-26

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CINCINNATI OHIO

WE extend the facilities of our organization to those desiring information or reports on companies with which we are identified.

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WHEN a man buys a de luxe motor car the last thing he does is to ask about its price. Mechanical perfection in an automobile requires superfine engineering, material, workmanship and inspection—factors that can never be measured solely by price.

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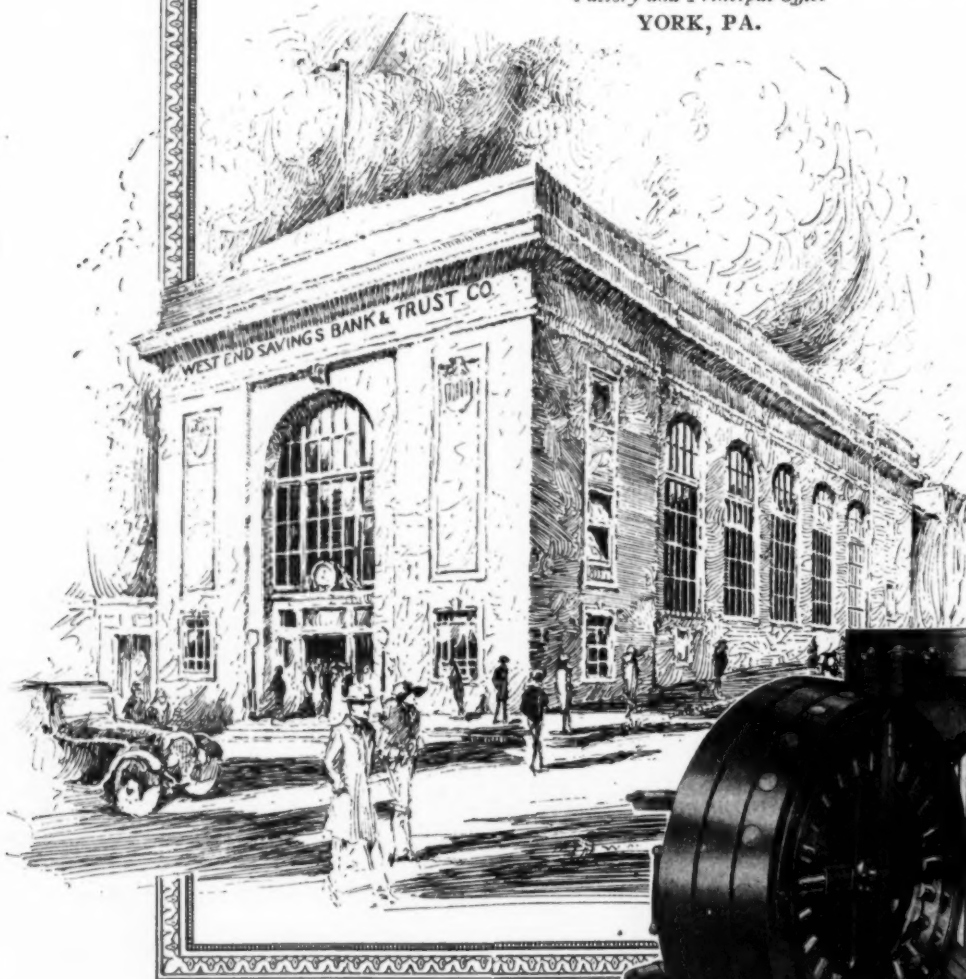
Built with the strictest vigilance, to insure the very finest quality in York Vaults, their cost frequently is lower, on comparisons of equal specifications. York Vaults are bought on confidence and retain that confidence for the length of their existence.

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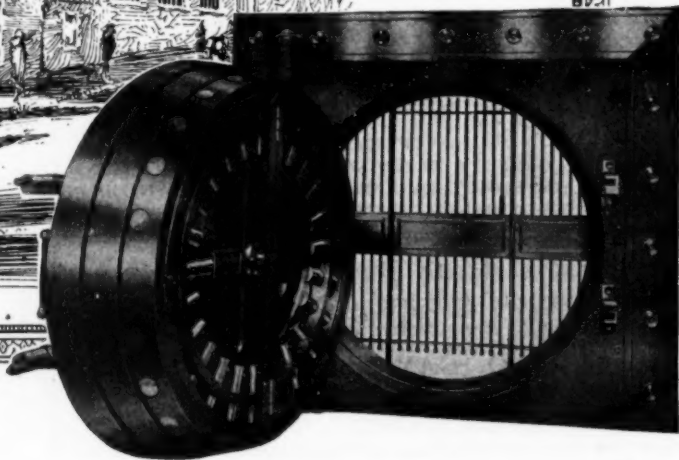
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Like the greatest banks of the country, the West End Savings Bank and Trust Company, of Pittsburgh, Penna. came to the York Safe and Lock Company for their vault. In this huge door means safety for the vast treasures stored within.



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VERSATILITY!**It takes a varied type of banking service to please—**

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National Bank of Richmond**

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The growth of the South is attracting the attention of the business world as never before.

Is your business expanding? Do you need increased banking facilities?

We invite your inspection of our modern, burglar-proof and fireproof Safety Deposit Vaults, which may be rented at small cost.

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BONDS AND NOTES*We solicit your offerings***SEASONGOOD & MAYER**

Ingalls Bldg.

Cincinnati, O.

1884

Southern men and women who lived in, or visited Baltimore in the period when this Company was established—which was the year of 1884—will be interested, we believe, in our anniversary book "The Early Eighties: Sidelights on the Baltimore of forty years ago." A copy will be sent upon request.

**MERCANTILE TRUST & DEPOSIT CO.
OF BALTIMORE**

Resources \$21,000,000 A. H. S. POST, Pres. F. G. BOYCE, Jr., Vice-Pres.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close March 19, 1928.

TREASURY DEPARTMENT, Bureau of Engraving and Printing, Washington, D. C., February 1, 1928.—Sealed proposals are invited to furnish dextrine, oils, textiles and dry colors during the fiscal year beginning July 1, 1928. The right is reserved to reject any or all bids or parts of bids. Samples must be received at the Bureau of Engraving and Printing not later than 2 P. M. March 19, 1928. Blank forms, with specifications for proposals, giving dates on which the bids for the several schedules will be opened, and further information will be furnished on application to A. W. HALL, Director.

Bids close March 7, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., January 30, 1928.—SEALED BIDS will be opened in this office at 3 P. M. March 7, 1928, for furnishing all labor and materials necessary for the furnishing and installation of electric elevators as follows: U. S. P. O., Akron, Ohio, one freight elevator; U. S. P. O. and Ct. H., Coeur D'Alene, Idaho, one passenger elevator; U. S. P. O. and Ct. H., Jamestown, North Dak., one passenger elevator; U. S. P. O. and Ct. H., Madison, Wis., one passenger elevator; U. S. P. O. and Ct. H., Williamson, W. Va., one freight elevator; U. S. P. O. and Ct. H., Wilson, North C., one passenger elevator. Drawings and specifications may be obtained at this office, in the discretion of the Supervising Architect, JAS. A. WETMORE, Acting Supervising Architect.

Bids close March 5, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., January 19, 1928.—SEALED BIDS will be opened in this office at 3 P. M. March 5, 1928, for the construction and for the mechanical equipment (except elevators) of the administration building of the United States Department of Agriculture at Washington, D. C. Drawings and specifications for construction and drawings and specifications for mechanical equipment, or for both, may be obtained at this office, in the discretion of the Supervising Architect. Requests from intending bidders for drawings and specifications should state whether those for construction or for mechanical equipment are desired. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. JAS. A. WETMORE, Acting Supervising Architect.

Bids close February 11, 1928.

\$110,000 Water Mains Extension Bonds

Greenville, Tenn.

We will receive sealed bids until 2 o'clock P. M. Saturday, February 11, 1928, at the Recorder's Office for \$110,000 Town of Greenville, Tennessee, Water Mains Extension Bonds, to bear not exceeding six per cent interest, said bonds to be dated February 1, 1928, and mature February 1, 1938, and are payable, both principal and interest, at the Hanover National Bank, New York.

Above bonds are to be issued under Chapter 50, First Extra Session, Senate Bill 242, Public Acts Tennessee, 1913, and pursuant to an election held December 31, 1927. The right is reserved to reject any and all bids if unsatisfactory and if deemed expedient to offer them at auction.

A good-faith deposit, certified check, of 5% of amount of bonds will be required to be filed with each bid.

N. A. HAWKINS,
Recorder.

RATE: 35 cents per line per insertion

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE

MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close February 16, 1928.

\$800,000 5% Electric Light Plant Improvement Bonds

Jacksonville, Fla.

Sealed proposals will be received by the City Commission of the City of Jacksonville, Florida, until 3.30 P. M. Thursday, February 16, 1928, for the purchase of all or any part of the Eight Hundred Thousand (\$800,000) Dollars, five per cent (5%) City of Jacksonville Electric Light Plant Improvement Bonds, Issue of 1926, numbers eight thousand fifty-one (8051) to eight thousand eight hundred fifty (8850), both inclusive (issued pursuant to Ordinance No. 8-119 of said city), in the principal sum of One Thousand (\$1000) Dollars each, dated August 1, 1926, maturing: Two hundred (200) of said bonds, Nos. 8051 to 8250, on August 1, 1934; two hundred (200) of said bonds, Nos. 8251 to 8450, on August 1, 1935; two hundred (200) of said bonds, Nos. 8451 to 8650, on August 1, 1936; two hundred (200) of said bonds, Nos. 8651 to 8850, on August 1, 1937; each of said bonds having attached the requisite number of interest coupons maturing semi-annually on the first days of February and August of each year, both principal and interest payable at Jacksonville or at the fiscal agency of the City of Jacksonville in the City of New York, State of New York, at the holder's option. These bonds are direct obligations of the City of Jacksonville and are registerable as to principal. In order to be considered each bid must be in the form prescribed by the city and must be accompanied by a certified check on one of the banks of Jacksonville or a cashier's check on some national bank, payable to the order of City Treasurer, Jacksonville, Florida, in amount of two per cent (2%) of the par value of the bonds bid for. The bids should be in a sealed envelope marked on the outside "Bid for Bonds" and addressed to Secretary City Commission, Room 13 City Hall, Jacksonville, Florida. Bids must be received at office of City Commission, Jacksonville, Florida, not later than 3.30 P. M. Thursday, February 16, 1928, and at the same place delivery of the bonds sold will be made to the successful bidder on Friday, February 17, 1928, at 10 o'clock A. M. The legality of said bonds will be approved by Thomson, Wood & Hoffman of New York, whose opinion as to the legality of said bonds or a duplicate thereof will be delivered free of charge to the purchaser, or if more than one purchaser then to each of the purchasers. NO BID FOR LESS THAN THE PAR VALUE OF SAID BONDS WILL BE CONSIDERED. Printed circulars containing more definite and detailed information and blank forms for bids may be had upon application to M. W. Bishop, Secretary City Commission, Jacksonville, Florida.

T. C. IMESON,
Chairman.

Attest:
M. W. BISHOP,
Secretary.

Bids close March 6, 1928.

PROPOSALS FOR BARGES—Office Third Mississippi River District, P. O. Box 404, Vicksburg, Miss. Sealed bids for constructing two steel-hull mooring barges and delivering them at Vicksburg, Miss., will be received here until 11 A. M. March 6, 1928, and then opened. Information on application.

Bids close February 23, 1928.

Notice of Sale of Direct Obligations of the State of Arkansas

Little Rock, Ark.

Notice is hereby given that the State Debt Board of the State of Arkansas, composed of the Governor, Secretary of State, Treasurer and Auditor, will, on the 23d day of February, 1928, at 10 o'clock A. M., receive and open at the office of the State Treasurer, in the City of Little Rock, sealed bids for \$275,000 of serial interest coupon State obligations, payable to bearer, bearing interest at the rate of 4%, 4½% or 4¾%, according to the best bid, the obligations to be in denominations of \$1000 and to mature serially in the following amounts and years:

\$8,000	1930
8,000	1931
8,000	1932
8,000	1933
8,000	1934
10,000	1935
10,000	1936
10,000	1937
10,000	1938
10,000	1939
16,000	1940
16,000	1941
16,000	1942
16,000	1943
16,000	1944
21,000	1945
21,000	1946
21,000	1947
21,000	1948
21,000	1949

Principal payable on the first day of September in each year; interest payable semi-annually March 1 and September 1 in each year, evidenced by coupons attached to the obligations. The sale will be for cash and no bid for less than par will be considered. Bidders are required to send with their bid certified check for \$5000, payable to Ralph Koonce, State Treasurer, the check of the successful bidder to be retained as a guarantee of the performance of the bid and those of the unsuccessful bidders to be returned to them.

The State will furnish at its own expense the printed obligations and the approving opinion of Rose, Hemingway, Cantrell & Loughborough, attorneys, of Little Rock. Delivery of the obligations will be made at the option of the purchaser in St. Louis, Chicago or New York on March 1, 1928.

The proceeds of the sale are to be used for the erecting and equipping of buildings and other permanent improvements at the Agricultural, Mechanical and Normal School at Pine Bluff, Arkansas. The obligations are primarily payable from the Agricultural, Mechanical and Normal School fund of the State.

These obligations are authorized by Act 146 of the General Assembly of the State of Arkansas for the year 1927, the validity of which has been sustained by the Supreme Court of Arkansas; they are direct obligations of the State of Arkansas, will be signed by the Governor, countersigned by the Treasurer and sealed with the Great Seal of the State, and the full faith and credit of the State are pledged to the prompt payment of the principal and interest when due.

The Board reserves the right to reject any or all bids. Further information will be cheerfully furnished by Ralph Koonce, State Treasurer, Capitol Building, Little Rock, Arkansas.

RALPH KOONCE,
Treasurer of the State of Arkansas.

Bond Retirement

North Birmingham, Ala.

Town of North Birmingham, Alabama. Water Works Extension bonds and Electric Light Extension bonds, dated July 1, 1906, and maturing July 1, 1936, are being retired at 105 plus accrued interest to date of delivery.

Holders of these bonds will please communicate at once with the undersigned.

C. E. ARMSTRONG,
City Comptroller,
Birmingham, Alabama.

Bids close February 15, 1928.

Creosoted Timber Bridge

Vero Beach, Fla.

Sealed bids will be received at the office of Carter & Damerow, Inc., Consulting Engineers, Vero Beach, Florida, until two (2) o'clock on the 15th day of February, 1928, for the construction of a bridge across the Kissimmee River at Turkey Hammock, Osceola County, Florida.

The principal items of work are approximately as follows:

1950 lineal feet of creosoted timber trestle.
1—20-foot roadway, steel swing span on concrete center pier. Over-all length approximately 154 feet.

The district reserves the right to award contract to separate bidders, on separate sections of the work and (or) to reject any or all bids.

Each bid must be accompanied by a certified check for five (5%) per cent of the amount of the bid, and the contractor must provide a construction bond for one hundred (100%) per cent of his bid.

Plans, specifications and forms of contract and bond may be examined at the office of Carter & Damerow, Engineers, or sets may be obtained from them by making a deposit of twenty dollars (\$20), ten dollars (\$10) of which will be refunded upon their return within fifteen (15) days following the opening of bids.

BOARD OF BOND TRUSTEES, ATLANTIC-GULF SPECIAL ROAD AND BRIDGE DISTRICT.

By D. C. COX, Chairman.

Attest:
B. T. REDSTONE, Secretary.

Bids close February 7, 1928.

Reinforced Concrete Structures

Laredo, Texas, January 19, 1928.

Sealed proposals addressed to Albert Martin, Mayor of Laredo, Texas, will be received at the office of the City Secretary until 7.30 P. M. Tuesday, February 7, 1928, for furnishing all necessary materials, equipment and labor and constructing Iturbide Street Bridge, Meadow Avenue Overhead Crossing, and widening Matamoros Street Bridge and appurtenances for the City of Laredo, Texas.

Instructions to bidders, proposal forms, specifications and plans are on file at the office of Frank C. Heins, City Engineer, 211 Alexander Building, Laredo, Texas.

Copies may be secured upon deposits of \$10, to be returned to the CONTRACTOR on submission of a bona fide bid on the work, with such Plans and Specifications, or upon returning the Plans and Specifications immediately after examination of same, and advising the Engineer that a bid will not be submitted; otherwise the deposit shall be forfeited.

The City of Laredo reserves the right to reject any or all bids.

THE CITY OF LAREDO, TEXAS.

(Signed) ALBERT MARTIN, Mayor.

Attest:
A. R. GARCIA,
City Secretary.

Bids close February 15, 1928.

Road Improvements

Robbinsville, N. C.

The County Commissioners of Graham County, North Carolina, will receive bids on Wednesday, February 15, 1928, at 10 A. M. at the County Courthouse, at Robbinsville, N. C., for the grading of eleven miles of County Roads, also for the installation of the necessary culverts and bridges.

Specifications and bidding blanks may be received from the office of the J. C. Grannan Engineering Company at Waynesville, N. C. (Signed) J. W. CRISP, Chairman.

W. M. SHERRILL, Clerk.

Bids close February 23, 1928.

Street Improvements

Oakdale, Louisiana.

Sealed bids for the installation of storm drainage and the improvement of certain streets in the City of Oakdale, Louisiana, will be received by the Mayor and Board of Aldermen of the City of Oakdale at the office of the City Clerk until 7.30 o'clock P. M. on Thursday, February 23, 1928, at which time they will be publicly opened, read and tabulated.

The work proposed consists of grading and hard-surfacing and of the graveling of streets, together with the construction of necessary drainage system and curb and gutter work.

Bids will be received on concrete, brick and asphaltic pavement complete, and upon the delivery of gravel and shells at Oakdale.

The principal quantities are approximately as follows and may be increased or decreased, at the option of the Board:

31,800 sq. yds. permanent paving.
28,000 lineal feet concrete curb and gutter.
5,960 lineal feet plain concrete curb.
17,420 cu. yds. excavation for streets.
2,370 cu. yds. excavation for ditches.
6,188 lin. ft. vitrified or concrete sewer pipe from 12 in. to 24 in.
48 lin. feet 24-in. cast-iron pipe.
12 standard manholes.
34 standard drain inlets.
1 concrete headwall.
Clearing and Grubbing.
7,500 cu. yds. gravel or shells.

Plans, specifications, form of proposal, contract and bond may be seen and examined at the office of the City Clerk, Oakdale, Louisiana, or may be obtained from the Engineer, HENRY A. MENTZ, HAMMOND, LOUISIANA. A charge of \$5.00 will be made for specifications and \$10 for plans.

All bids must be made on proposal blanks furnished by the Engineer. No alternative proposal made by a contractor will be considered.

The contractor will be paid on monthly estimates amounting to 80% (eighty per cent) of the work done and materials furnished.

All proposals must be accompanied by a certified check for 10% (ten per cent) of amount of bid, drawn on a bank doing business in the City of Oakdale, Louisiana, and made payable unconditionally to Hon. E. L. Eldred, Mayor, Oakdale, Louisiana.

The successful bidder will be required to furnish a performance bond amounting to 100% (one hundred per cent) of the contract price.

The right is reserved to reject any and/or all bids or to waive formalities and to make such award as, in the opinion of the Board, is to the best interest of the City of Oakdale.

E. L. ELDRED, Mayor.
D. C. GREEN, City Clerk.

HENRY A. MENTZ,
Consulting Engineer,
Hammond, Louisiana.

Bids close February 28, 1928.

Market Street Viaduct

Shreveport, Louisiana.

The City of Shreveport, La., will receive sealed bids until 10 o'clock A. M. February 28, 1928, for the construction of reinforced concrete and steel girder type viaduct along Market Street between Franklin Street and Sixth Street.

Approximate estimate of quantities:

Concrete Piling	20,000.00 lin. ft.
Concrete Footings, Bases and Columns.....	870.00 cu. yds.
Reinforced Steel Footings, etc.....	80,000.00 pounds
Concrete Walls, Curb, Walks, etc., North Approach.....	1,050.00 cu. yds.
Concrete Walls, Curb, Walks, etc., South Approach.....	2,640.00 cu. yds.
Concrete above top of columns, etc.....	5,700.00 cu. yds.
Concrete Hand Rails.....	4,010.00 lin. ft.
Pipe Hand Rails.....	1,370.00 lin. ft.
Reinforcing Bars and Mesh.....	1,160,000.00 pounds
Miscellaneous Metal	70,000.00 pounds
Steel Girder Spans.....	900,000.00 pounds
Gunite Encasement Steel Girder Spans.....	Lump Sum
Embankment, North Approach.....	4,400.00 cu. yds.
Embankment, South Approach.....	12,000.00 cu. yds.
Complete Lighting System.....	Lump Sum

Plans, specifications and bidding blanks may be obtained from Harrington, Howard & Ash, Consulting Engineers, 1012 Baltimore Avenue, Kansas City, Missouri, or from H. E. Barnes, City Engineer, City Hall, Shreveport, La., upon deposit of \$25 for each set. Of this amount \$15 will be refunded upon return of each set to the Consulting Engineers.

Each bid shall be accompanied by a certified check on a solvent bank, payable to the City of Shreveport, in amount not less than five per cent of total amount of bid, as a guarantee that bidder will enter contract and make required bond.

The City of Shreveport reserves the right to reject any or all bids.

Bids close February 13, 1928.

Paving.

Leesburg, Fla.

Sealed proposals on blank forms furnished by the city and addressed to the "BOARD OF CITY COMMISSIONERS, LEESBURG, FLORIDA," will be received at the City Hall in Leesburg, Florida, until 8 P. M. February 13, 1928, for furnishing all material, equipment and labor for doing the following work: Approximately 11,000 sq. yds. street paving, together with all appurtenances connected therewith.

Each bid shall be accompanied by a certified check for not less than one thousand (\$1000) dollars, made payable to W. E. Harkness, City Clerk.

Plans and specifications may be seen at the office of the City Manager and the Engineers and specifications may be obtained from the Engineers upon payment of \$2.00 to cover cost of reproduction.

The right is reserved to reject any or all bids and to waive any technicalities.

CITY OF LEESBURG, FLORIDA.

W. A. MACKENZIE,
Mayor-Commissioner.

D. E. BIVINS, City Manager.

W. E. HARKNESS, City Clerk.

H. S. JAUDON ENGINEERING CO.,
Engineers,
Leesburg, Florida.

Bids close February 20, 1928.

Sanitary Sewers and Pumps

Brunswick, Ga.

Sealed proposals addressed to the City of Brunswick, Brunswick, Georgia, and marked "Sealed Proposal," will be received until 8 P. M. February 20, 1928, to be opened immediately thereafter, for furnishing material, equipment and labor and constructing certain work approximately as follows:

6.5 miles Sanitary Sewers ranging in size from 24-inch cast-iron pipe to 8-inch terra cotta or concrete, complete with all appurtenances.

Two Automatic Pumping Plants, each containing two centrifugal pumping units.

Each bid to be on blank forms furnished by the City Manager and is to be accompanied by a certified check, certified to or issued by a regularly incorporated bank, made payable to the Mayor of the City of Brunswick, Ga., for \$5000.

Certified check will be forfeited as liquidated damage if contract and bond are not executed within the time specified, if proposal is accepted; otherwise will be returned within ten days.

The right is reserved to reject any and all bids.

Plans and specifications may be seen at the office of the City Manager and the offices of the Engineers, and may be obtained from either upon payment of \$10 to cover cost of reproduction.

E. C. GARVIN, City Manager.
HUGH BURFORD, Secretary.
E. V. CAMP AND ASSOCIATES, INC.,
Consulting, Supervising and Testing
Engineers,
Atlanta, Georgia.

Complete Town

WANTED—Contractor to build a complete town; over 3500 acres of land, 4 trunk-line railroads. For full particulars write J. D. STONE, P. O. Box 438, Norfolk, Va.

Bids close February 15, 1928.

Drainage Work

Pembroke, N. C.

Sealed proposals for the construction of a system or Drainage Canals, and all work and structures incident thereto, in Robeson County, N. C., in conformance with the plans and specifications governing same will be received by the Board of Drainage Commissioners of Robeson County Drainage District No. 2, at the office of the Chairman of the Board, Pembroke, N. C., until 12 o'clock noon Wednesday, February 15, 1928, at which time and place all bids received will be publicly opened.

The amount of work to be done is approximately as shown below. They are not exact quantities nor should they be so considered, and are given only as a basis for comparison of bids.

EXCAVATION—
Open Canals, 210,000 cubic yards.

CLEARING—
Right of Way, approximately 180 acres.

STRUCTURES—
Bridges, Highway, Wood, 11 only.
Bridges, Neighborhood Road and Farm, Wood, 38 only.

Drop Box, Wood or Concrete, 1 only.
Complete specifications, plans, maps and profiles are on file with the Clerk of the Superior Court of Robeson County and at the office of F. F. Wetmore, Engineer for the District, Lumberton, N. C., where they may be seen. Complete copies of same will be sent to interested parties by the Engineer on receipt of \$5.00. Specifications, Form of Proposal, Contract and Bond may be obtained from the Engineer, Chairman or At-

torney. Only proposals submitted on the forms so furnished will be considered.

Bidders are advised that under Chap. 318 of the Public Laws of North Carolina, 1925, that it will be necessary for each bidder to submit evidence of a contractor's license, under the provisions of said chapter, before his bid will be considered.

Actual performance of the contract must begin within 20 days after the execution of the same and must be completed by January 31, 1929. Monthly payments will be made for ninety per cent of the work performed each month on this project from money now on hand.

All proposals must be accompanied by acceptable certified check or bidder's bond for not less than five per cent of the total amount of the proposal. A satisfactory surety company's bond equal to twenty-five per cent thereof will be required for the faithful performance of the contract.

The right is reserved to reject any or all proposals or to accept any proposal deemed best for the District.

This, the 27th day of January, 1928.
R. H. LIVERMORE, Chairman,
Robeson County Drainage District No. 2.

Bids close March 1, 1928.

Dredging and Rock Removal Fort Pierce Inlet, Florida

OFFICE OF THE BOARD OF COMMISSIONERS OF FORT PIERCE INLET DISTRICT

Fort Pierce, Florida.

Sealed bids will be received here until 2 P. M. March 1, 1928, and then publicly opened, for dredging and rock removal at Fort Pierce Inlet, Florida. Further information on application to this office or to the office of Gilbert A. Youngberg, Chief Engineer, 21 Laura Street, Jacksonville, Florida. Specifications and drawings upon request and deposit of 10 dollars.

E. L. PRICE,

Chairman of the Board of Commissioners.

Wanted Sub-Contractors

WANTED—Sub-bids on all lines of work and materials for High School Building at West Orange, N. J. Apply

KING LUMBER CO.,
General Contractors,
Charlottesville, Va.

Bids close February 8, 1928.

Furniture, Janitors' Supplies, Etc.

DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS
MADISON AND LAFAYETTE AVENUES
Baltimore, January 25, 1928.

SEPARATE SEALED PROPOSALS, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, February 8, 1928, endorsed:

"Proposals for Janitor's Supplies and
"Materials for Repair Shop for the Department of Education."

"Proposals for Furniture for the Department of Education."

Specifications for either of the above may be obtained at the office of the Director of Business Management of the Department of Education, corner Madison and Lafayette avenues, Baltimore, Md.

Each bid must be accompanied by a certified check of the bidder for \$50, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract and in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,
Acting Secretary Board of
School Commissioners.

Approved January 25, 1928.

WILLIAM F. BROENING,
President Board of Awards.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

MINERAL PROPERTIES

Kaolin, feldspar, mica, asbestos, cynite, corundum, garnet, gold and other metallic minerals. If interested in the above minerals write me.

W. B. McGUIRE, Franklin, N. C.

OIL AND TIMBER LAND

3500 acres alluvial land, with 2500 feet hardwood per acre, in fee; La Salle Parish, edge of Urania Oil Field. Price \$7.50 per acre; one-third cash, balance terms.

W. A. STEPHENS, Realtor,
P. O. Box 555, Shreveport, La.

FOR SALE—A gold placer mine which has been assayed by two very competent and reliable engineers, and this will run \$10 per ton of dirt or muck, estimated to be 20,000,000 tons or more muck; best gold mine in the country. H. G. Love, Hendersonville, N. C.

TIMBER CRUISER

TIMBERLAND CRUISING and values given anywhere. Also operating plans furnished. Advice as to yearly growth in value of young timber. Many years' practical experience.

W. J. McGOVERN, Timber Cruiser,
Clearfield, Pa.

FARM AND TIMBER LAND

A BARGAIN—Can now convey to you in fee simple one block of 80,000 acres of land with good stand of timber. Close to railroad and hydro-electric power. Located West Central Florida. Terms to responsible parties. Address No. 6853, care of Manufacturers Record, Baltimore, Md.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. *When the advertisement contains a number of long words proper allowance should be made.* Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

IT'S FREE—IN FLORIDA

The finest year 'round climate in the world—U. S. Weather Bureau. The Playground of the Rich; the Paradise of the Poor. Send today for 1928 list of Homes, Groves, Farms and Investments. Tampa-West Coast Realty Co. (Inc.), Opposite Post-office "Since Before the War," Tampa, Fla.

ORANGE GROVES IN ORANGE COUNTY, FLORIDA, the center of the Citrus Industry. We have several excellent groves and can furnish grove care by an organization of sixteen years' experience.

REX-McGILL INVESTMENT CO.,
Box 293 Orlando, Florida.

FARM, FRUIT AND TRUCK LANDS

MARYLAND

118 ACRES adjoining small town and convenient to Frederick, Maryland. Master's dwelling, mountain stone, bungalow type, 10 rooms, vapor heat, electricity, baths, city water; beautiful lawn; fine cow stables and horse barn; college nearby. High altitude, healthy location; an exceptional purchase. POTT & GRIFFIN, Frederick, Md.

NORTH CAROLINA

If interested
FOR HOME OR FOR INVESTMENT
In the great and rapidly developing
STATE OF NORTH CAROLINA,
especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to
F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

SOUTH CAROLINA

FOR SALE—3000 acres; would sell 1000 acres of same. Entire mountain in Blue Ridge; view many miles in N. C., Ga. and S. C. Fine springs, trout streams, good land, well timbered, fine roads; suitable for resort or fruit orchards. This wonderful property must be seen to be appreciated. Price extremely low. Address P. O. Box 153, Pickens, S. C.

TEXAS

"TEXAS 'WINTER GARDEN' LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY, Realtors,
501-4 Houston Building,
San Antonio, Texas.

GULF COAST PROPERTY**GULF COAST PROPERTY.**

FOR SALE—700x1700, located on Back Bay between Edgewater Development Company and Government Naval Reserve holdings. Full riparian rights. Beautifully wooded and best 700 ft. frontage on Back Bay. Write for particulars.

T. W. BUDDE,
Arcade Bldg., St. Louis, Mo.

CITY AND SUBURBAN PROPERTY**DESIRABLE FLORIDA PROPERTY**

For Quick Sale—at Reasonable Price famous Ormond-Daytona Beach, running back 2900 feet to the Halifax River, located two miles north of the Ormond Beach Hotel (owned and operated by the Florida East Coast Railroad) and the winter residence of Mr. John D. Rockefeller. For quick sale I offer a portion of this land for cash at a price way below its present value.

It is an ideal location for a large private estate or for a high-class residential development.

For particulars please address
WALTER L. THURSTON,
P. O. Box 1, Ormond Beach, Florida.

BUSINESS OPPORTUNITIES

WRITE TO L. WUESTE, P. O. Box 183, Eagle Pass, Texas, for information on the biggest gravity irrigation project in the State; unusual possibilities.

SELL OR LEASE plant and machinery. Space additional manufacturing. Bagging-Ties, Batts Cottonwaste. Low labor cost. Spartanburg, S. C. Spartanburg Bagging and Waste Co.

DESIRE CORRESPONDENCE with manufacturer-jobber of railroad equipment, with reference to their taking over Patented and "going" specialty. Address P. O. Box 790, Augusta, Ga.

WANTED—A practical printer, with money, to invest in an established, well-equipped plant in one of the best industrial towns in the Shenandoah Valley. Address No. 6849, care Manufacturers Record, Baltimore, Md.

FOR SALE—The only exclusive men's furnishing store in Eagle Pass, Texas, a growing city, with tributary business territory containing quarter million people and more to come, for it is getting ready to put in the biggest gravity irrigation project in the State. Will take \$18,000 to handle. Write for full information to L. WUESTE, P. O. Box 183, Eagle Pass, Texas.

FOR SALE—Half or whole interest in a well-equipped sand and gravel proposition, Philadelphia Road at the city limits, Baltimore, Md.; 32 acres, with abundance of as good material as there is in the State, with lake supplying abundance of water. Railroad running through property.

H. L. THOMAS,
1821 Eutaw Place, Baltimore, Md.

"A REAL OPPORTUNITY"

Good opening for right party to buy one-third interest in fast-growing, well-known Wholesale Lumber and Steel Commission Business; established 6 years. Territory, Virginia, North and South Carolina; doing some Wholesale Lumber Business up North. Sell direct to Retail Yards and Reliable Contractors. Fine Mill connections, some exclusive accounts. Need party to help complete Sales Organization. Will soon open offices in Richmond, Virginia. Cash required \$2500; to right party, part Cash and Terms. If interested wire when can meet us at our offices for interview; open few days only. Address

BARNES & FULLER, INC.,
503 Masonic Temple Bldg., Raleigh, N. C.

BUSINESS OPPORTUNITIES

WANTED TO SELL, to reliable party who will assume management of business, an interest in a well-established lumber plant making a specialty of high-grade, short-leaf, yellow-pine dimension stock, having a capacity of three hundred cars per year; freight rate to Cincinnati 22½¢. A good opportunity for the right party. Address No. 6856, care of Manufacturers Record.

BUSINESS AND INVESTMENT PROPERTIES

FOR SALE—Very desirable business property, returning over a thousand dollars a year; never been vacant and never will be; low taxes. Price \$10,000. L. WUESTE, P. O. Box 183, Eagle Pass, Texas.

BILOXI, MISSISSIPPI**FOR SALE OR LEASE**

200x400 feet, 700 feet west of Edgewater Gulf Hotel. Full Riparian Rights. Seawall and paved road in front. Short distance from Golf Course and Railroad Station. Wonderful location for apartment or hotel building. Terms reasonable.

W. E. STEWART, M. D.,
402 Tribune Building,
Terre Haute, Ind.

INDUSTRIES WANTED

WANTED—A Paper Mill or Wood Products Company to locate here. Plenty willow timber, cheap electric power, good railroad and other inducements.

DR. H. L. COCKERHAM,
Gunnison, Miss.

BENNETT, CHATHAM CO., N. C.

is one of the best locations in the entire South for manufacturers using any kind of hardwood or pine timber, brick, crushed rock, or cotton mills, hosiery mills. Has water power, plenty labor, good roads, hunting reservation, etc. Bennett has same climate as Southern Pines, being 25 miles north of same. For further information see or write J. R. PEACE and A. F. ANDREWS, Bennett, N. C.

INDUSTRIAL PLANTS

FOR SALE CHEAP—Flour, Corn and Feed Mill in best agricultural section of Georgia.

J. W. WOOLFOLK, Fort Valley, Ga.

BEASLEY LUMBER AND MILLING CO.'S PLANT of Mt. Airy, N. C., for rent for a term of from 5 to 10 years. Has 14,900 sq. ft. floor space, besides three sheds. Is equipped with the best sprinkler system. Has concrete street on three sides. The best location in Mt. Airy for manufacturing. Is near the R. R. station. The buildings are one concrete and one brick.

FACTORY SITES

FOR SALE—360 acres, situated 8 miles from business center of Atlanta; about 3000 feet railroad frontage; suitable for large industries and their village sites. Taxes are exempt for 5 years on new industrial plants. CRAIG COFIELD, Oakland Florida.

VALUABLE MFG. SITE For Sale—Just outside city limits Concord, N. C.; a thriving industrial city of 15,000; site near stream and adjacent to main line So. Ry.; switchtrack space available. Suitable for any kind of mfg. D. A. McLaurin, Concord, N. C.

FOR SALE OR LEASE

Brick building, 63x73, two-story, situated on 1.4 acres of ground near Belt Line Railroad, property owned by the city. Offered for small factory site; reasonable terms for either sale or lease to reliable parties. Apply to FRANK C. HANRAHAN, City Manager, Portsmouth, Va.

TAMPA, FLORIDA—the logical distributing point. HARRIS TERMINALS—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

COLLECTION

WE COLLECT Accounts, Notes, Claims anywhere in U. S. and Canada. No charges unless collected. Es. 25 years; bank ref. May's Collection Agency, Somerset, Ky.

BRANCH OFFICE SERVICE

Personal Representation, Mail Forwarding. HOUSTON, TEXAS. Branch Office Service. Correspondence Solicited. EDWARD L. BLOSSAT, P. O. Box 680, Houston, Texas.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECHNICAL SERVICE COMPANY,
Woolworth Building New York City

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FREE, "PATENT PARTICULARS": Sterling Buck, over 21 years Registered Patent Attorney. Prompt and thorough services. Suite M, 629 F, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. PAUL B. EATON, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 Seventh St. N. W., Washington, D. C.

FOREIGN AGENCY WANTED**EUROPEAN SALES MANAGER.**

A man under middle age, experienced in sales management in Europe, desires to represent a United States manufacturer in England and the Continent. Already established in London. Full particulars upon request from New York affiliations and financial office. Address No. 6854, care of Manufacturers Record, Baltimore.

AGENCIES WANTED**MANUFACTURERS' AGENT**

Retired manufacturer of machine tools and hardware equipment wishes to represent reputable manufacturer in the New York market. Has wide acquaintance with trade. Address No. 6855, care of Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED**MANUFACTURERS' OPPORTUNITY.**

A producer with executive ability and knowledge of the pressed and blown table glassware business desires connection. Extended acquaintance with the trade and constructive sales and managerial experience. P. O. BOX 1383, PITTSBURGH, PA.

SITUATIONS WANTED

EXPERIENCED PLANT ENG., technical graduate, 15 years' experience in design and construction, desires position with reliable concern. 6851, care Manufacturers Record.

BUSINESS EXECUTIVE, 38; fifteen years' successful experience in general and sales management; full knowledge accounting, credits and collections; well educated, fully capable and a producer. Complete information and references gladly furnished. Services available immediately. Address No. 6858, care Manufacturers Record, Baltimore.

MEN WANTED

WANTED—Salesman to travel in territory, including eight Southeastern States, for nationally known pipe manufacturer; prefer single man between 25 and 30 years of age, with previous experience in iron and steel. Salary and expenses. Address No. 6857, care Manufacturers Record, Baltimore.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established seventeen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg., Buffalo, New York.

MEN WANTED

HIGH-GRADE machine shop foreman wanted, take charge of modern machine shop. Must be good organizer and know how to work men. Shop operated on the open plan and located in a Southern city approximately 75,000 population. Address No. 6850, care Manufacturers Record.

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. American Security Credit Company, General Offices, St. Louis, Mo.

A SALESMAN

A permanent, profitable opportunity for salesman who has sold or can sell to power plants. Acquaintance with industrial buyers in this territory desirable. Efficient products backed by Surety Bond for every industrial plant, hotel, public institution and all buildings. Personal training. Exclusive territory. State your experience. Replies confidential.

THE NORTH AMERICAN FIBRE
PRODUCTS CO.

Cleveland,

Ohio

CONTRACT WORK WANTED

DEPENDABLE COMPANY, with 45 years' experience, operating well-equipped and extensive plant consisting of Pattern Shop, Foundry, Machine Shop, Forge and Structural Shop, supported by skilled mechanics and capable engineers, wants connection with reliable consulting and contracting Engineers and others who desire a plant to manufacture Machinery and Equipment to meet their requirements. Plant facilities suitable for the manufacture of light or heavy units. Grey Iron and Semi-steel castings up to 40,000 lbs.; Brass and Aluminum up to 1000 lbs. Address No. 6796, care of Manufacturers Record, Baltimore, Md.

MACHINERY AND SUPPLIES

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating Equipment and Household Electric Refrigerators very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY. "Department E." Waynesboro, Pa.

MACHINERY AND SUPPLIES WANTED

Wanted, Belt
FLY WHEEL.
18 ft. dia., 30 in. face.
Box 1233, Joliet, Ill.

Wanted—Large size
SWEETLAND
FILTER PRESS
Box 1233, Joliet, Ill.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



Building Suitable for HOSIERY OR TOWEL MILL Or Other Industry

In Manning, South Carolina, county seat of Clarendon County. Building now occupied by store. 90x150 feet, 2 stories with walls thick enough to support a third story. Equipped with passenger and freight elevators and with basement about 40x90 feet.

COMMUNITY ADVANTAGES

New industries exempt from Municipal taxes for five years. Electric power supplied by Carolina Power & Light Company at rates as good as any other town in United States. Population 2500, healthy place, paved streets, good fire department, and excellent drinking water, and all other modern improvements. Situated on Atlantic Coast Line Railroad, and on state highway No. 26, with hard surfaced road nearly all the way to Charleston and also Columbia.

We would like to confer in detail with anyone interested in this opportunity.

D. W. ALDERMAN & SONS CO.
ALCOLU, S. C.

Modern Factory Building in a Thriving Southern Industrial Center

WE have been authorized to sell a well-built, strictly up-to-date building, located in the heart of the industrial market of the South, Rock Hill, S. C.

Rock Hill's population is 12,000, with 4,000 in immediate suburbs. In every respect one of the most progressive towns in the State. Labor plentiful, satisfied and reasonable.

The building itself has 90,000 square feet floor space, concrete floor, one-story, saw-tooth roof, steel construction, composition roofing; separate light and power line in conduit; automatic sprinklers; steam heated, water and sewerage. This building has 10,000 square feet concrete platform on the East side running parallel with Southern Railway side track, side track owned by the Company. There are 2,500 square feet of wood platform running full length of building at rear.

The price is truly rock bottom. Write for more information.

Ernest Patton, Secretary
Greenville, South Carolina



Absolute Auction Sale
Stock of New, Reconditioned
and Used



MACHINE TOOLS

The Property of
HENRY PRENTISS & CO., Inc.
 439 Communipaw Ave., Jersey City, N. J.

THURSDAY AND FRIDAY,
FEBRUARY, 16 AND 17, 1928

AT 10 A. M. EACH DAY, ON THE PREMISES

The sale comprises Brown & Sharpe, Cincinnati, Norton and Landis plain and universal cylindrical grinders; Badger, Beasley, Gardner, Brown & Sharpe, Heald, Cincinnati, Pratt & Whitney, Wells, Oliver and Yankee disc, tool and surface grinders; Gould & Eberhardt, American, Cincinnati, Smith Mills, Walcott and Hendey single pulley and cone drive shapers; Bliss, V. & O., Advance and Billings & Spencer inclinable and straight side presses; Cincinnati, Pond, Sellers, Ohio and Hendey planers; Jones and Lamson, Acme, Pratt & Whitney, Libby, Cleveland, Bardons & Oliver, Warner & Swasey and Gridley automatic screw machines and turret lathes, Lucas, Niles, Poole, Bullard and Warner & Swasey horizontal and vertical boring mills; Hendey, Lodge & Shipley, Hamilton, Prentiss, Reed, Willard, Robbins and American engine, screw cutting and tool room quick change lathes with selective patent and cone heads; Cincinnati, Brown & Sharpe, Hendey, Kempsmith, Becker, Milwaukee and Le Blond high power, universal, horizontal and vertical milling machines; Cincinnati, American, Bickford, Natco, Prentiss, Barnes, Rockford, Henry & Wright, Snyder and Foote-Burt, single and double multi and gang drill presses; American, Bickford, Cincinnati, McCabe, Dreses and Fosdick radial drill presses; La Pointe broaching machines; bolt cutters, key seaters, Acme bolt header, blowers, furnaces, band and swing saws, planers, electric motors, chain hoist, small tools, office furniture, etc.

Note: Henry Prentiss & Co. are retiring from the used machinery business. This sale presents an opportunity to buy new, reconditioned and used machine tools from one of the largest stocks recently offered at absolute auction sale.

By Order of Henry Prentiss & Co., Inc.

Descriptive Illustrated Catalogs Upon Application to

SAMUEL T. FREEMAN & CO., Auctioneers	
1808-10 Chestnut St.	80 Federal St.
PHILADELPHIA	BOSTON

FLORIDA'S Choicest Indian River ORANGES and GRAPEFRUIT

Shipped anywhere East of the Mississippi, delivered to the home; all carrying charges fully paid, for

\$5⁵⁰=

A BOX THREE LAYERS DEEP

A box of delicious "Pick-of-the-Grove" genuine Indian River oranges and grapefruit. The box is solid packed with tree-ripened fruit—three layers deep, and trimmed with clusters of kumquats and bright red tangerines.

Guaranteed to arrive in perfect condition
A trial order will make you one of my regular "Box-A-Month" customers.

FRED A. BERRY

334 S. BEACH ST. DAYTONA BEACH, FLA.

*"Dame Nature grows them and
I select her choicest for you."*

Desirable Florida Property For Quick Sale—At Reasonable Price

Large strip of land on the famous Ormond-Daytona Beach, running back 2900 feet to the Halifax River, located two miles north of the Ormond Beach Hotel, (owned and operated by the Florida East Coast Railroad), and the winter residence of Mr. John D. Rockefeller. For quick sale I offer a portion of this land for cash at a price way below its present value.

It is an ideal location for a large private estate or for a high class residential development.

For particulars please address

Walter L. Thurston
P. O. Box 1 Ormond Beach, Fla.

RALEIGH, NORTH CAROLINA

The owners of a valuable lot in the center of the business district of Raleigh, N. C., worth \$250,000.00, desire to lease the lot for a long period of years to responsible parties who will erect a modern building thereon. The lot is a corner one and fronts 70 feet on each street. Owners will accept space on upper floors in building to be erected in lieu of rent. Location suitable for office building, hotel, department store, or theater. Will consider propositions from investors only. Promoters need not answer this advertisement. Further information sent upon request.

JOHN W. HINSDALE, President
Capital Club Raleigh, North Carolina

Woodworking Plant—For Sale or Lease

Suitable for making Core or Dimension Stock. \$50,000 worth of Machinery, Dry Kilns and Five-Room Cottage. All for \$21,500. Easy Terms.

For Information write

Mr. S. S. Preston
Johnson City, Tennessee

YOU may replace certain machinery in your plant this year. Let us help you sell the equipment you will no longer need by advertising it in

THE RESALE DEPARTMENT
Manufacturers Record Baltimore, Md.

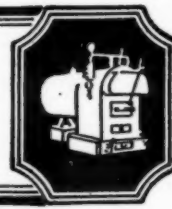


RESALE DEPARTMENT

MACHINERY

EQUIPMENT

SUPPLIES



An Inventory representing several million dollars of going units is released for quick sale on a bargain basis, because of replacement of local plants by transmission service. Excellence of physical condition certified.

ENGINE AND
TURBO UNITS

HIGH PRESSURE
BOILERS

POWER PLANT
APPARATUS

Mail or wire specifications of your requirements to

PAUL STEWART and COMPANY

First National Bank Building
Cincinnati, Ohio Telephone R. 2862

Cable Address - Pasco, Cincinnati
Cable Address - Pasco, Cincinnati



FOR SALE

WHITE TRIPLE COMBINATION PUMP, CHEMICAL AND HOSE TRUCK

This truck has been used as a demonstrator but has never been in active service. It is a highly efficient piece of fire apparatus, equipped with a 40-gallon Champion chemical tank, a 600-gallon Hale pumper, 250-feet of chemical hose with nozzles, etc. The truck is powered with a White 16-valve motor and is in A-1 condition.

Can be Purchased for the Bargain Price of \$5,000

Address Inquiries to

THE WHITE COMPANY

930 Commonwealth Ave.

Boston, Mass.



Something New

Removable Joint Plates For Building Longitudinal And Transverse Joints

The HELTZEL system of longitudinal and transverse joint construction consists of V shaped removable joint plates 3" deep, $\frac{1}{2}$ " wide at the top, $\frac{1}{4}$ " wide at the bottom, with expanding bars and pedestals. The pedestals remain permanently beneath the surface of the concrete.

The joint plates are supported on pedestals and brought to alignment and the expanding bars are inserted. After the surface has been belted and the concrete takes its initial set, the expanding bar is removed and the V shaped plate

collapsed, withdrawn and used over again.

The joint is finished by a tool which rounds the edges. It is then poured with a suitable filler which seals the joint against surface water.

Center joints installed by this system serve as permanent and distinct traffic lines.

Expansion joint plates butt up to the center joint plate and are made for any width of street.

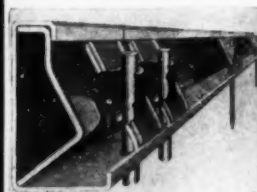
Write for HELTZEL'S new catalogue of street building equipment.

THE HELTZEL STEEL FORM & IRON CO., WARREN, OHIO

Manufacturers of Steel Road Forms, Steel Curb Forms, Steel Curb and Gutter Forms, Steel Sidewalk Forms, Mixing Boxes, Agrabatchers, Trailer Bins, Stationary Bins, Manhole Forms, Sewer Forms, Pipe Forms, Finishing Machines, Strikeoffs, Trail Graders, Subgrade Testers, Traveling Bridges, Car Unloaders, Steel Mortar Boxes, Steel Tool Boxes, Joint Machines.

HELTZEL CONTRACTORS EQUIPMENT

BETTER EQUIPMENT MEANS MORE PROFIT



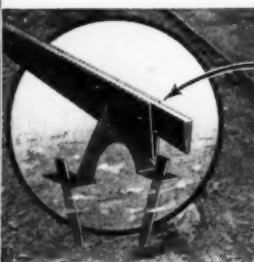
**HELTZEL
Improved
Steel Road Forms**



**HELTZEL
Curb and Gutter
Forms**



**HELTZEL
Integral Curb
Forms**



**HELTZEL
Joint Plates**



**HELTZEL Bins
And Agrabatchers**

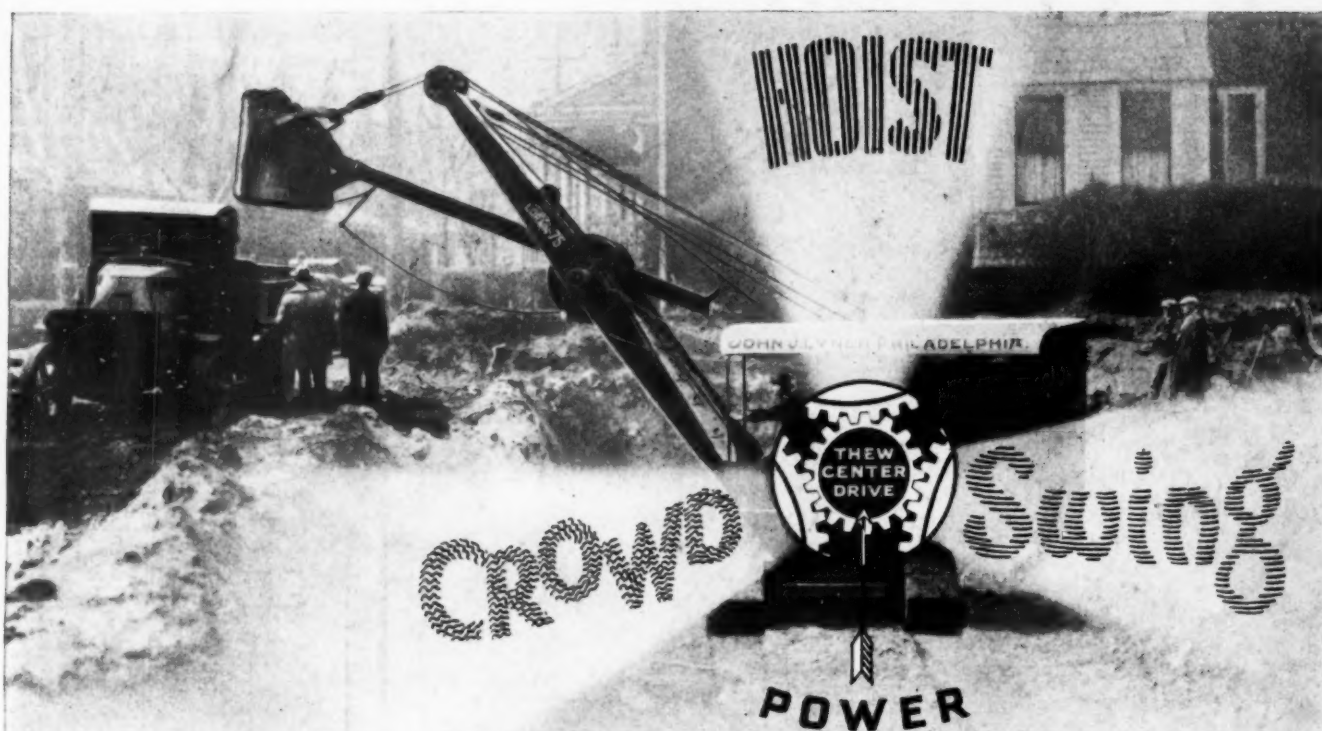
The Heltzel Steel Form & Iron Company,
Warren, Ohio. (M. R.)

Send me information on: Road Forms....
Curb Forms....Curb and Gutter Forms....
Joint Plates....Bins....

Name.....

Address.....

City.....State.....



SHOVEL power must get to the material before it can dig. Thew Center Drive gets the power to the job in the most direct line—to hoist, swing, crowd as well as travel.

The Thew Center Drive means fewer parts—full sized rugged parts that give all-day-long performance and freedom from costly break-down delays.

More power and fewer delays mean greater profits to you. Let us tell you why—and how—Thew and Thew only, has Center Drive.

THE THEW SHOVEL COMPANY
LORAIN, OHIO

Gasoline, Steam and Electric Shovels Cranes Draglines

Thew Center Drive applied to swing, hoist and crowd gives the same rugged service that has made Thew Center Drive Trucks famous.

THEW

Gasoline
or
Electric
Powered

LORAIN 60 AND 75

Shovels
Cranes
and
Draglines

